ORDER NO. VRD9507M129

Service Manual

General Description
Adjustment Procedures
Block / Schematic Diagrams
Exploded Views / Parts List

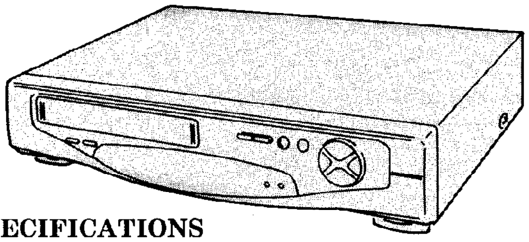
Video Cassette Recorder

Panasonic VHS
PAL/NTSC

Hi-Fi HQ

NV-HD600A/EA/BD

K-MECHANISM



SPECIFICATIONS

ITEM	SPECIFICATION	
POWER	SOURCE: 240V AC 50/60Hz (NV-HD600A) 230V AC 50/60Hz (NV-HD600EA) 110V~240V AC 50/60Hz (NV-HD600BD)	
	CONSUMPTION: 19 watts (NV-HD600A) 20 watts (NV-HD600EA/BD)	
RECORDING SYSTEM	2 rotary heads, helical scanning system	
	PAL/NTSC 4.43 (NV-HD600A) PAL (NV-HD600EA) PAL/NTSC (NV-HD600BD)	
TV TUNER SYSTEM	NV-HD600A	VHF I: CH0~CH5 (PAL B) VHF III: CH5A~CH12 (PAL B) UHF: CH21~CH69 (PAL G) 75Ω terminated
	NV-HD600EA	VHF I: CH1~CH3 (PAL B) VHF III: CH4~CH11 (PAL B) UHF: CH21~CH69 (PAL G) 75Ω terminated
	NV-HD600BD	VHF I: CH2~CH4 (PAL B/SECAM B) CH1~CH5 (PAL D/SECAM D, KI) CH2~CH6 (NTSC M) VHF III: CH5~CH12 (PAL B/SECAM B) CH6~CH12 (PAL D/SECAM D, KI) CH7~CH13 (NTSC M) UHF: CH21~CH69 (PAL G, H, I/ SECAM G, K) CH13~CH57 (PAL D) CH14~CH79 (NTSC M) 75Ω terminal
RF OUT SYSTEM	NV-HD600A	VHF: CH0/1 (PAL B) 73±3dBμ, 75Ω terminated
	NV-HD600EA	VHF: CH2/3 (PAL B) 73±3dBμ, 75Ω terminated
	NV-HD600BD	UHF: CH38$^{+2}_{-6}$ (PAL G, H, I/SECAM G, K) CH25$^{+2}_{-1}$ (PAL D) CH29~CH39 (NVSC M) 73±3dBμ, 75Ω terminated

ITEM	SPECIFICATION
VIDEO	HEADS: 4 rotary heads 1 pair for SP recording, playback and trick play (L-R heads) 1 pair for LP recording, playback and trick play (L'-R' heads)
	INPUT: VIDEO IN Connector (Phono type) 1.0Vp-p, 75Ω unbalanced
	OUTPUT: VIDEO OUT Connector (Phono type) 1.0Vp-p, 75Ω unbalanced
AUDIO	HEAD: 1 Stationary head (Normal Audio) 2 channels (Hi-Fi Sound-Stereo)
	INPUT: AUDIO IN Connector (Phono type) More than −10dBV (316mV), more than 47kΩ
	OUTPUT: AUDIO OUT Connector (Phono type) −6dBV (500mV), less than 1kΩ
TAPE FORMAT	VHS Cassette tape (Tape width 12.7mm)
TAPE SPEED	SP: 23.39mm/s LP: 11.695mm/s Record/Playback Time: SP: 4 hours with 240min. type tape LP: 8 hours with 240min. type tape FF/REW Time: 2.5min. with 180min. type tape
OPERATING TEMPERATURE	5°C−40°C
OPERATING HUMIDITY	35%−80%
DIMENSIONS	430(W)×91(H)×310(D) mm
WEIGHT	4.6kg
STANDARD ACCESSORIES	1 pc. DIN-RF Cable 1 pc. Infra-red Remote Controller 1 pc. AC Mains Lead 1 pc. AV Cables (NV-HD600BD)

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

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⚠ WARNING
This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

INTRODUCTION

This service manual contains technical information which will allow service personnels to understand and service this model.

Section 1 presents you with technical know how for actual servicing and general information of features and controls, enabling you to become familiar with each function.

Section 2 presents to your mechanical and electrical adjustment information as well disassembly and replacement procedures.

In the case of very common information relating to other models like mechanical adjustments, please refer to the appropriate service manual.

Section 3, 4 contains block diagrams which provides you with information for checking and understanding each circuit. Schematic diagrams which give you detailed information such as waveforms, voltage data, function e.t.c. ...

Section 5 contains exploded views and parts list.

Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

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SECTION 1
GENERAL DESCRIPTIONS

1-1. SERVICE INFORMATION

1-1-1. SERVICE POSITION

A. CHECKING OF MAIN C.B.A.

When servicing the MAIN C.B.A., take out the MAIN C.B.A. and mechanism from the frame and turn over.

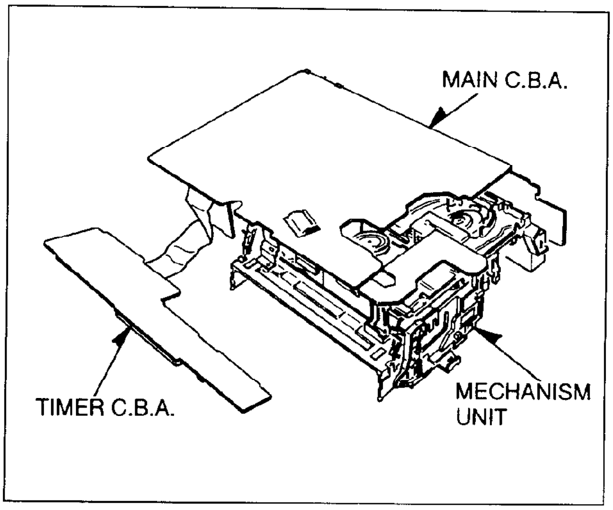


Fig. S1

B. MECHANISM SERVICE POSITION

When servicing the K-Mechanism, take out the mechanism from the MAIN C.B.A. and connect Extention Cable (VFK0889) between the loading-motor connector and P2001 as shown below.
In this position, the following services are possible.

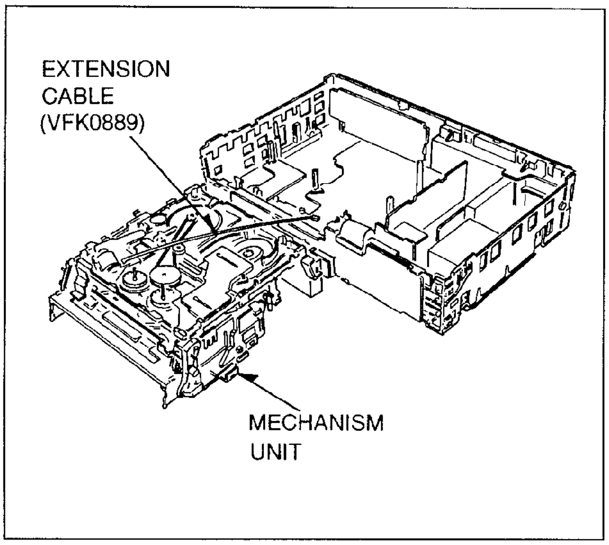


Fig. S2

B-1. CHECKING OF GEAR PHASE ALIGNMENT CONDITION

1) Check gear phase Alignment Condition of Mechanism.

B-2. CHECKING OF LOADING/UNLOADING OPERATION

There are 3 methods for manual operation of loading/unloading operation as follows.

1. HAND OPERATION
   1) Turn the Worm Gear or the Worm Wheel Gear (Remove the Loading Motor Unit) manually.
2. BATTERY OPERATION
   1) Remove the Extention Cable (VFK0889).
   2) Connect the Battery (Manganes-Type R6 (AA) 3pcs./+4.5V) to the Loading Motor terminals.
3. SERVICE INFORMATION DISPLAY OPERATION
   1) Set the Service Information Display mode. (Press the "FF", "REW" and "EJECT" buttons simultaneously.)
   2) Press the "FF", "REW" and "EJECT" buttons 7 times to set the Service Mode 7. (The end of display on the Display becomes "--".)
   3) In the above Service Information Display mode, the Loading Motor rotates for Loading operation when the "PLAY" button is pressed.
      The Loading Motor rotates for unloading operation when the "STOP" button is pressed.

Remark:
Use the "SERVICE INFORMATION DISPLAY" mode for a final check of mechanism movement.

B-3. CHECKING OF REEL GEARS OPERATION

1) Move the mechanism to "PLAY" position by loading operation. (Refer to B-2)
2) Turn the Capstan Rotor Unit to check movement of reel gears.

1-1-2. MOTOR DRIVE & SUB AUDIO PACK C.B.A. SERVICE POSITION

Use the extension cables when checking.

PART NO.	PART NAME	PCS	CONNECTION
VFK0917	11-PIN WIRE CABLE	1	PP2001 (MAIN) – PS2501 (M. DRIVE)
VFK0678	18-PIN WIRE CABLE	1	PP2002 (MAIN) – PS4701 (M. DRIVE)
VFK0918	17-PIN WIRE CABLE	1	PP2002 (MAIN) – PS4701 (M. DRIVE)

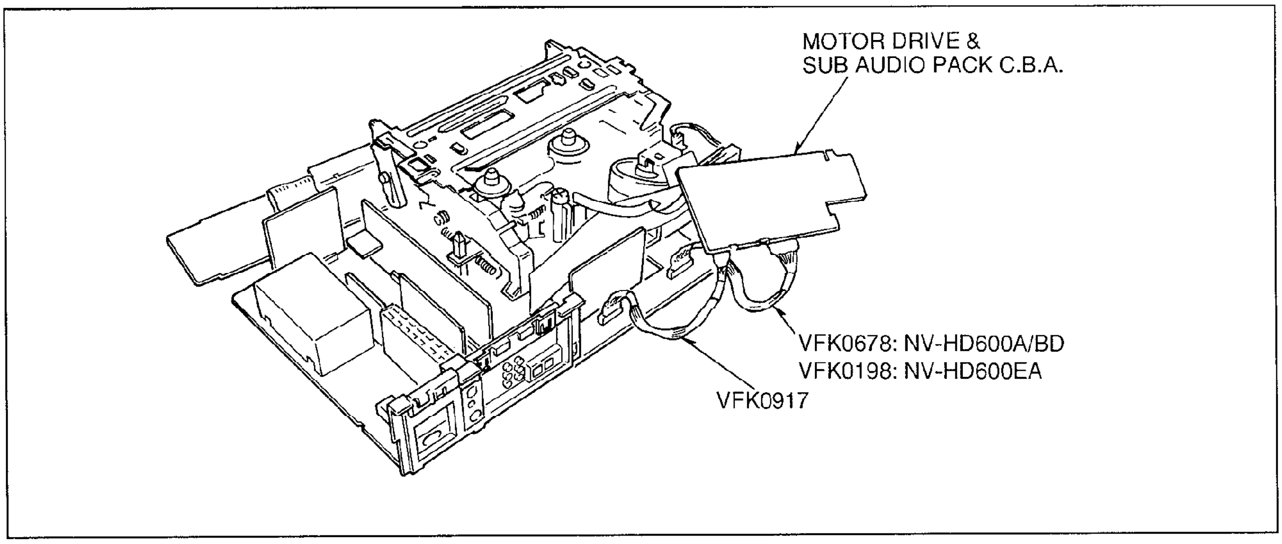

MOTOR DRIVE &
SUB AUDIO PACK C.B.A.
VFK0678: NV-HD600A/BD
VFK0198: NV-HD600EA
VFK0917

Fig. S3

1-1-3. UPPER CYLINDER REPLACEMENT

A. UPPER CYLINDER DISASSEMBLY

1) Remove the Top Panel.
2) Remove the Screw (A) and Cylinder Angle.
3) Remove the Screw (B) and Earth Plate.
4) Lift up the Upper Cylinder.

Note: Do not remove 3 Screws on the Upper Cylinder.

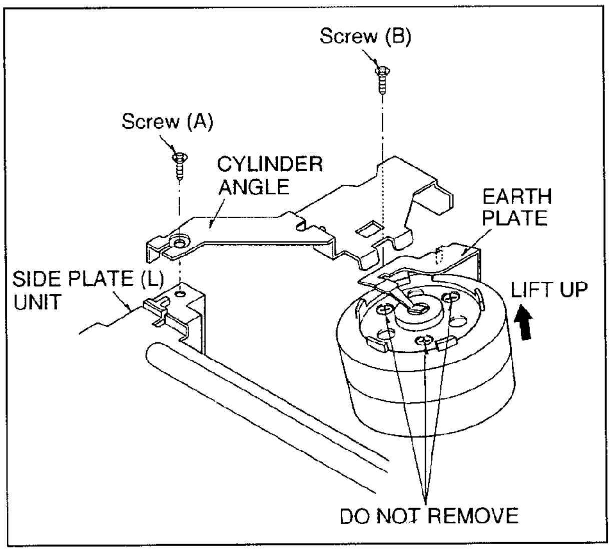

Screw (B)
Screw (A)
CYLINDER ANGLE
EARTH PLATE
SIDE PLATE (L) UNIT
LIFT UP
DO NOT REMOVE

Fig. S4

Do not remove the Rotor Magnet which fixed by 3 screws on the Upper Cylinder.

If it is removed, refer to following method.

1) Install the Rotor Magnet so that the hole (C) on the Rotor Magnet fits to the small projection (D) on bottom of the Upper Cylinder.
2) Tighten 3 screws on top of the Upper Cylinder.

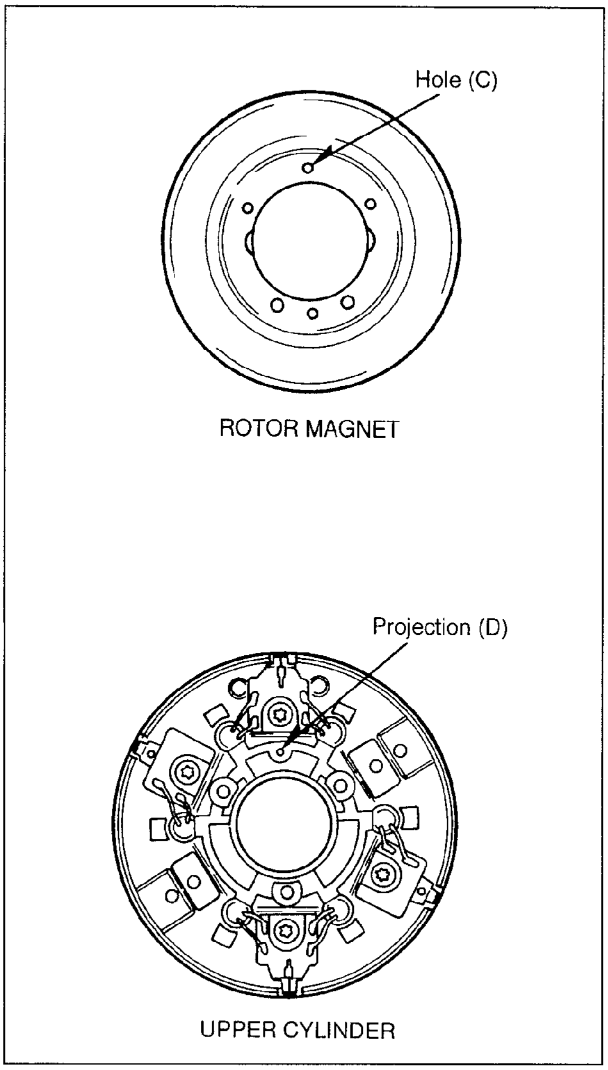

Hole (C)
ROTOR MAGNET
Projection (D)
UPPER CYLINDER

Fig. S5

B. UPPER CYLINDER ASSEMBLY

When reassembling, perform the steps in the reverse order of the DISASSEMBLY METHOD.

1-1-4. NEW GLDD CYLINDER UNIT REPLACEMENT

The Cylinder Unit can be replaced easily by the following method.

1) Remove the Top Panel.
2) Remove the 2 screws (RED) of Head Amp Mount.
3) Remove the Screw (A) and Cylinder Angle. (Fig. S4)
4) Remove the Screw (B) and Earth Plate. (Fig. S4)
5) Remove the 3 screws of the Cylinder Unit with a magnetized screw driver through the holes on the Bottom Plate as shown below.

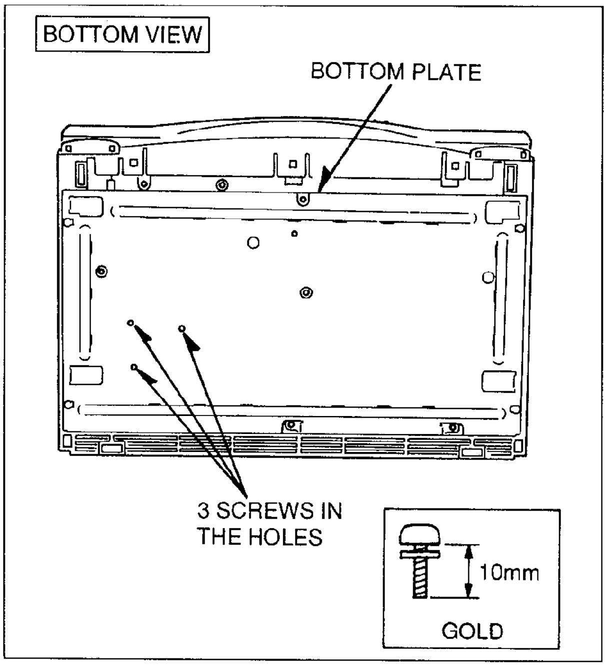

BOTTOM VIEW
BOTTOM PLATE
3 SCREWS IN THE HOLES
10mm
GOLD

Fig. S6

1-1-5. FLAT CARD CABLE INSTLLATION

When installing the Flat Card Cable on the connector, install the Flat Card Cable with the cable contacts facing the connector contacts.

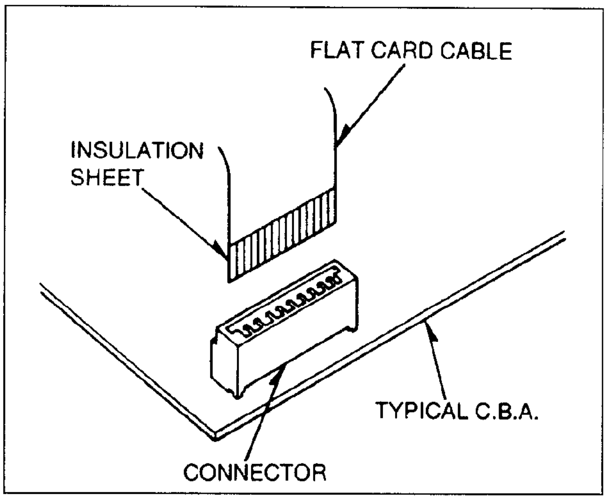

FLAT CARD CABLE
INSULATION SHEET
TYPICAL C.B.A.
CONNECTOR

Fig. S7

1-1-6. CAPSTAN STATOR UNIT ASSEMBLY

When replacing the Capstan Stator Unit, the Centre Fixing Tool (VFK0851) must be used to fix the centre of Capstan Stator Unit.

Method:
1) Place the Capstan Stator Unit into position.
2) Loosely tighten the 3 screws.
3) Insert the Centre Fixing Tool (VFK0851) as shown below.
4) Tighten the 3 screws.
5) Remove the Centre Fixing Tool.

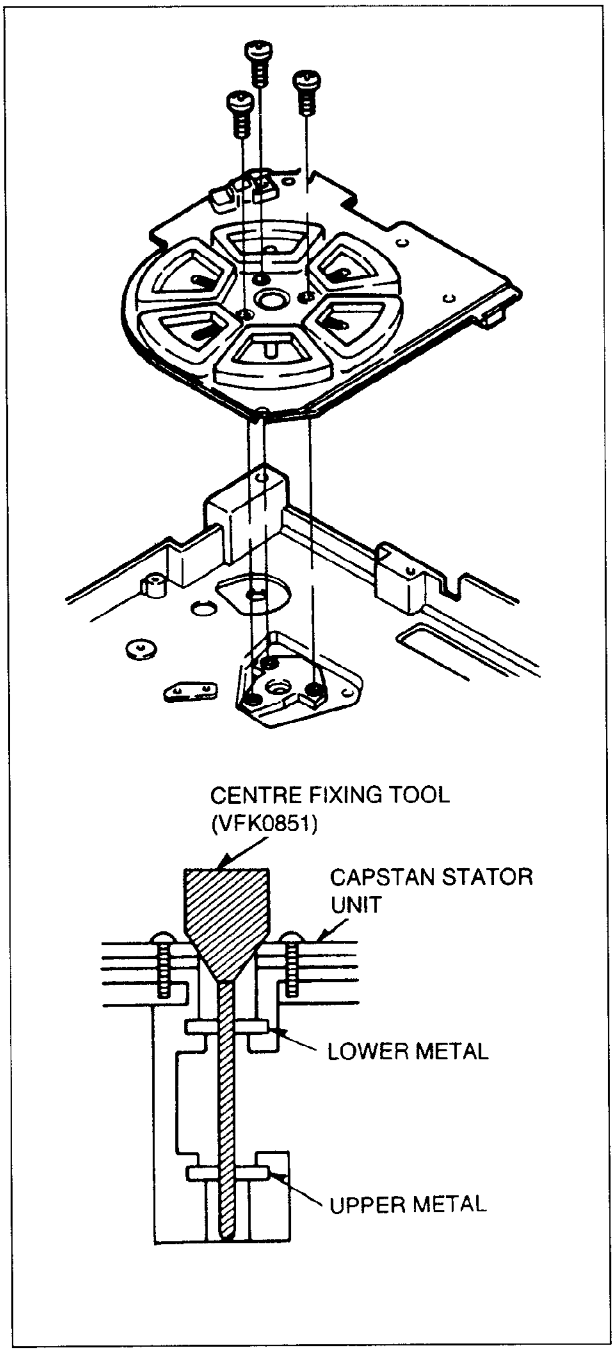

CENTRE FIXING TOOL
(VFK0851)
CAPSTAN STATOR
UNIT
LOWER METAL
UPPER METAL

Fig. S8

1-1-7. EJECT OPERATION

The main cam gear rotates in the direction of the arrow. The projection (B) of the carriage connection gear engages with the recession (A) of the main cam gear. The carriage connection gear rotates in the direction of the arrow to perform the Eject operation.

<NOTE>
If the Eject operation is performed without the cassette carriage installed while repairing or making the mechanical phase alignment, the main cam gear will not engage with the carriage connection gear and will not rotate.
To perform the Eject operation with the cassette carriage not installed, it is necessary to rotate the carriage connection gear by hand in the direction of the arrow.

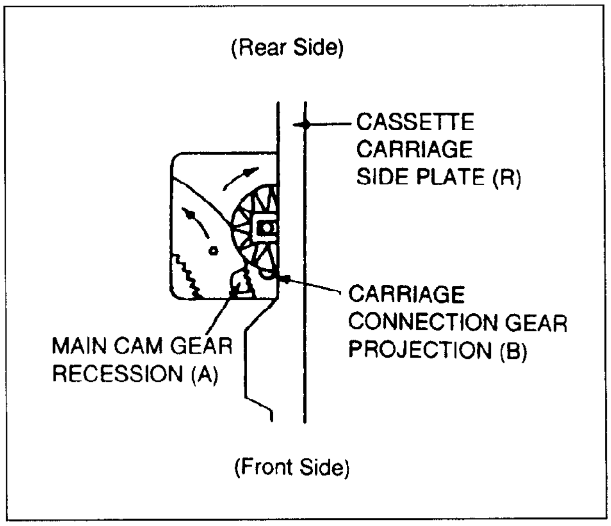

(Rear Side)
CASSETTE
CARRIAGE
SIDE PLATE (R)
CARRIAGE
CONNECTION GEAR
PROJECTION (B)
MAIN CAM GEAR
RECESSION (A)
(Front Side)

Fig. S9 Top View of Eject Operation

1-1-8. TAKE-UP PHOTO SENSOR OPERATION

Note the following matters for Take-up Photo Sensor Operation.

1) While servicing of the K-Mechanism, the unit will not operate properly if a strong light (ex, Fluorescent light, Spot light) falls on the Take-up Photo Sensor.
In this case, cover the Take-up Photo Sensor to prevent the light from falling on it.
2) While servicing of the K-Mechanism with "Power On" and without cassette tape inserted, the Unit does not operate properly.

1-1-9. REMOVAL OF THE CASSETTE TAPE

If the electrical circuit is defective and the action of unloading and front unloading do not work properly, it is possible to remove the cassette manually. There are 2 methods of removing the cassette.

1. HAND OPERATION

1) Take out the mechanism from MAIN C.B.A.
2) Turn the Worm Gear manually, moving the Loading Post to the unloaded position.
3) Turn the Capstan Rotor Unit clockwise to take up the tape.
4) Turn the Worm Gear again to eject the cassette.

2. BATTERY OPERATION

1) Take out the mechanism from Main C.B.A.
2) Connect the Battery (Manganes-Type R6 (AA) 3pcs./ +4.5V) to the Loading Motor terminals as shown below.
3) After moving the Loading Post to the unloaded position, disconnect the battery to stop the motor.
4) Turn the Capstan Rotor Unit to clockwise to take up the tape.
5) Reconnect the battery to eject the cassette.

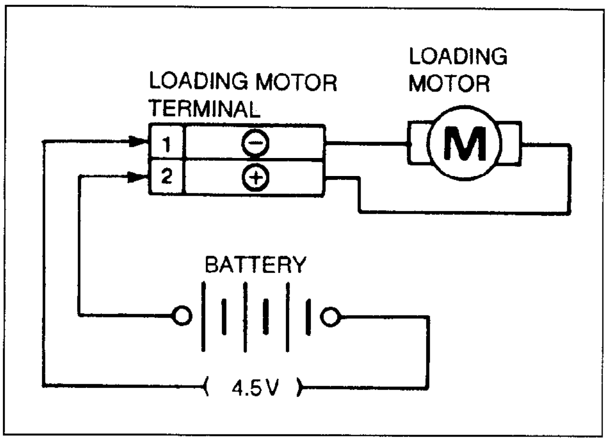


Fig. S10

If the cassette tape can not be removed by the above 2 methods, remove it by the following method.

1) Remove the Top Panel.
2) Remove the Front Panel Unit.
3) Lift up the Pinch Arm after removing spring.
4) Push the P5 Arm and remove the cassette tape from tape transportation (P1, P2, P3 and P5 Posts).
5) Turn the Capstan Rotor Unit to take up the tape.
6) Remove 1 screw from the Side Plate (R) Unit to disconnect the Rack Gear from the Carriage Connection Gear.
7) Take out the cassette tape from the Cassette Compartment.

1-1-10. CHANNEL MEMORY IC INITIALIZATION

When replacing the channel memory IC7502, its IC should be initialized.

Note: 1) It should be performed before tuning.
2) Do not turn off the power source during initialization or 1 second after.
3) Meaning of "INITIALIZATION" is to erase the "SKIP CH" In other words the number of channel position is the same as displayed channel.

Method:
1) Press the CH UP/DOWN Button so that the channel indicator indicates "3".
2) Connect a jumper wire between Pin 25 and Pin 43 of IC7501 for more than 1 second.
3) Channel indication changes from "3" to "1".

1-2. SELF-TEST INDICATION DISPLAY

This VTR has a self-diagnosis and display function. If the VTR detects trouble during installation or during use, one of the following Fault Indication Codes will automatically appear in the VTR display. Fault Indication codes are displayed in the form of a single English letter followed by two numbers, as for example "H01".

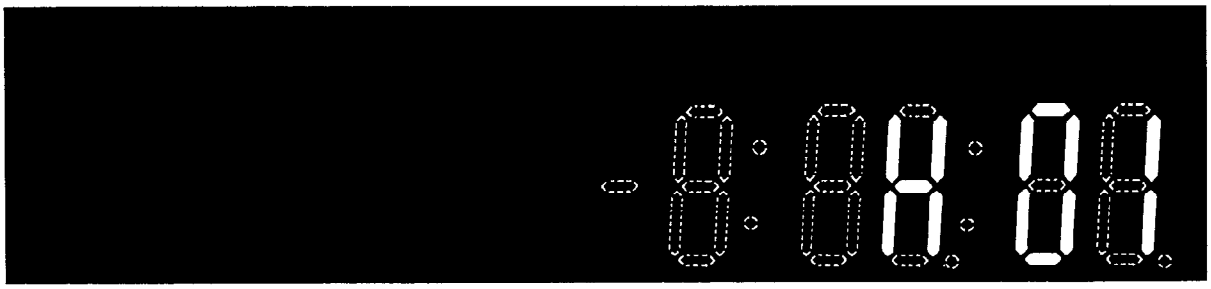
Note:1. The indication "U" is displayed on the FIP while power remains on.

2. Otherwise, the indication "H" or "F" is displayed on the FIP, and the power is automatically turned off. When the power is turned on again, the Fault Indication Code will disappear and the unit will return to normal display mode (either clock or counter).

3. This Fault Indication Code will be stored in the Timer microprocessor even with the AC plug disconnected.
The two-digit number portion of the stored Fault Indication Code can be redisplayed in the FIP's "second" display position (the last 2 digits on the light) by placing the unit is Service Mode Number 2 when turning on Service Information Display as for example "01" or "02" etc.
If a second error occurs, only the most recent error will be displayed and stored.

4. To erase the stored Fault Indication Code data, press the FF, REW and EJECT buttons simultaneously for 5 seconds.

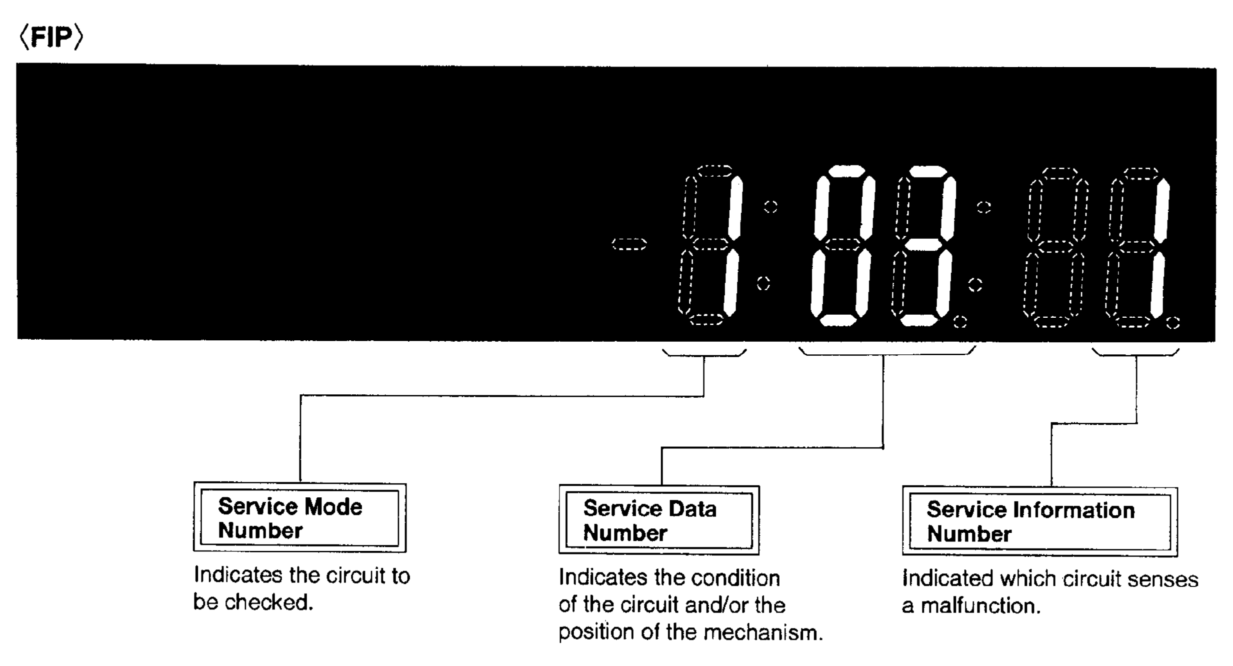
⟨FIP⟩



INDICATION	CAUSE	REMEDY/CHECK
U 10	Dew formation.	Wait until the indication disappears.
H 01	After cylinder lock is detected, the cylinder does not start rotating again even after tape unloading.	Check the cylinder-motor drive circuit.
H 02	Cassette tape is not wound up during tape unloading except Eject mode.	Check the capstan-motor drive circuit.
F 03	Mechanism locks during mode transition except Eject mode.	1. Check the loading-motor drive circuit. 2. Check the mechanism phase alignment. 3. Check the Mode Switch.
F 04	Mechanism locks during tape unloading.	1. Check the loading-motor drive circuit. 2. Check the mechanism phase alignment.
F 05	Cassette tape is not wound up during tape unloading in Eject mode.	1. Check the capstan-motor drive circuit. 2. Check the Supply/Take-up reel pulse.
F 06	Mechanism locks after tape unloading in Eject mode.	1. Check the loading-motor drive circuit. 2. Check the mechanism phase alignment for Cassette Holder Unit.
F 09	No serial clock transmission between IC6001 and IC7501.	Check the serial clock circuit.

Fig. T1 Self-Test Indication Display

1-3. SERVICE INFORMATION DISPLAY



Indicates the circuit to be checked.

Indicates the condition of the circuit and/or the position of the mechanism.

Indicated which circuit senses a malfunction.

Fig. D1 Service Information Display

1-3-1. Purpose of Service Information Display

This information aids trouble shooting by indicating the source of the malfunction. The service mode number & service data number are used by the technician during repair while the service information can be used by the consumer to diagnose malfunctions allowing the technician to provide a more accurate repair cost estimate and reduce repair time.

1-3-2. Turning on Service Information Display

There are two ways to turn on the Service Information Display.

(1) Press the “FF”, “REW” and “EJECT” buttons simultaneously.
(2) Connecting a Jumper wire between TPSERV and TPTEST will display the service information indefinitely.

In the Service Information Display, there are four digits divided into 3 functions.
The first digit indicates which of the 8 service modes that the unit is currently in.

MODE 1 : Checks tape protection circuit
MODE 2 : Checks tape transport mechanism
MODE 3 : Checks mode switching operation
MODE 4 : Checks control buttons
MODE 5 : Checks capstan motor
MODE 6 : Checks cylinder motor
MODE 7 : Checks loading/unloading operation
MODE 8 : Not used.
(The MODE 8 is displayed only when connecting a jumper wire between TPSERV and TPTEST.)

The second and third digits are service data which indicate the condition of the circuit or mechanism being checked.

The forth digit is the service Information display. It is to be used by the consumer to help determine the source of a malfunction. The service information display operates independently of the service modes and stores the fault indication in memory for as long as AC power is supplied. (except service mode number 2, 7 and 8)

1-3-3. Use of Service Modes

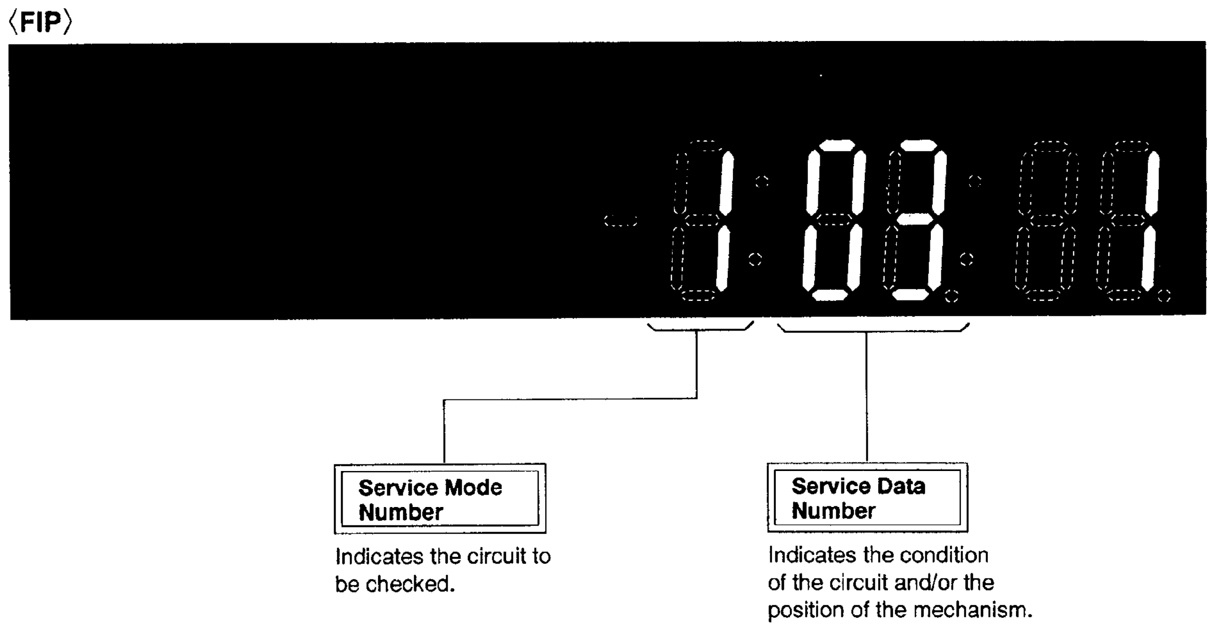

〈FIP〉
1:03:01
Service Mode Number
Indicates the circuit to be checked.
Service Data Number
Indicates the condition of the circuit and/or the position of the mechanism.

Fig. D2 Service Mode Number and Service Data Number on S.I.D.

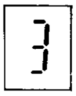
(1) Turn on Service Information Display.

(2) To change Service Modes press the "FF", "REW" and "EJECT" buttons simultaneously.

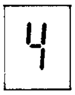
(3) Mode 1 : Checks that the Sensor LED, Supply & Take-up Sensor circuits check the circuits by blocking the light from the Sensor LED to either or both Supply & Take-up Sensors. When the light is blocked to both sensors, "00" should be indicated on the service data number. When the light is blocked to the supply sensor, "01" should be indicated.

(4) Mode 2 : Checks the mode switch circuit while indicating mechanism position. Service Data Numbers indicate the position of the mode switch and there by the mechanism position.

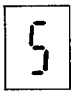
(5) Mode 3 : Checks that mode switch circuit operations have been completed. Service Data Number should indicate "00" after each mechanism operation is completed.



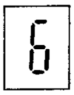
(6) Mode 4 : Checks the operation circuit. Indicates if IC6001 receives the operating commands from the mode buttons and/or remote controller.



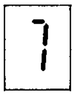
(7) Mode 5 : Checks the capstan motor circuit. Indicates if the IC6001 has received the command to rotate the capstan motor.



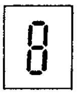
(8) Mode 6 : Checks the cylinder motor circuit. IC6001 has received the command to rotate the cylinder motor.



(9) Mode 7 : Checks the Loading/Unloading Operation. The Loading Motor rotates for loading operation when the "PLAY" button is pressed. The Loading Motor rotates for unloading operation when the "STOP" button is pressed. This mode can be displayed indefinitely until the OPERATE button is pressed.

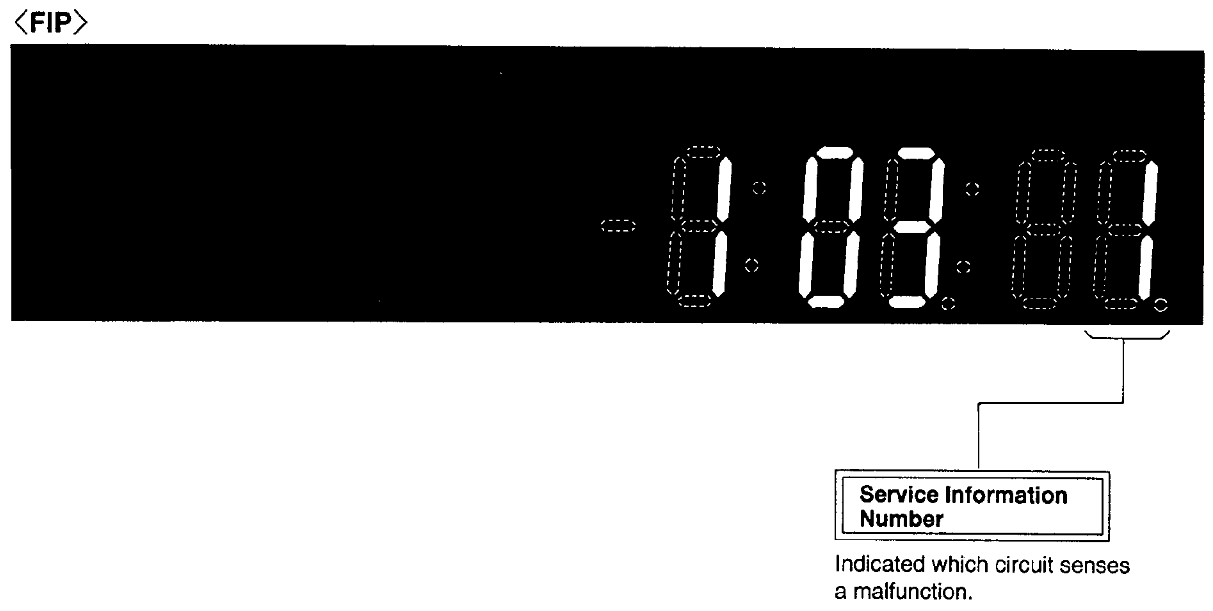


(10) Mode 8 : Not used.



<NOTE>
Refer to Fig. D5 for details of Service Data Numbers.

1-3-4. Service Information Number



Indicated which circuit senses a malfunction.

Fig. D3 Service Information Number on S.I.D.

Refer to Fig. D4 for details of Service Information Number.

Note:
The Service Information Number display is independent of the service mode display.
The Service Information Number will be stored as long as AC power is supplied.
If a second error occurs, only the most recent error will be displayed.
(except service mode number 2, 7 and 8)

Service Information Number	Malfunction
0	Normal (No problem)
1	Cylinder stop
2	Tape reel stop
3	Stop at position other than 4 or 6
4	Stop during unloading
5	Faulty capstan rotation
6	Stop during Cassette-In/Eject operation

Fig. D4 Detail Service Information Numbers

Service mode Number	Note for checking Service Data Numbers	Service Data Numbers	Indication	Remarks
1	———	00	No light detected at either sensor.	Tape not required.
		01	Tape Beginning. Light to Supply Photo Sensor is blocked.	
		02	Tape End. Light to Take-up Photo Sensor is blocked.	
		03	Light detected at both sensors.	
2	———	00	EJECT	Tape Required. ＊1: STOP3; The Pinch Roller is on the capstan motor shaft. ＊2: STOP; The Pinch Roller is off the capstan motor shaft. Refer to Fig. D7 to Check mechanism Position and timing.
		01	Cassette-down	
		02	REV, REV SLOW	
		03	Loading/Unloading	
		04	PLAY/REC, STILL/PAUSE, CUE, FWD SLOW, STOP3 *1	
		05	STOP *2	
		06	FF/REW	
		07	Intermediate position	
3	Disregard service data displayed until mechanism operation is completed. Then the display should indicate "00".	00	Any display other than "00" indicates a fault in the mode switch circuit or system.	Tape Required.
4	Display only when the operating button is pressed.	Refer to Fig. D6		Tape not required.
5	Left digit only, disregard Right digit display.	8 1 Left Digit Right Digit	8, 9, u, A, –, n, L, and no display indicate that the Capstan motor "PLAY" command received by IC6001.	Tape required. If a symbol other than those listed is displayed, a malfunction in that circuit is indicated.
	Right digit only, disregard left digit display.	8 7 Left Digit Right Digit	1, 2, 3, 4, 5, 6, 7, indicate that the Capstan motor "CUE, FF, Forward Slow" commands received by IC6001.	
	Right digit only, disregard left digit display.	8 Left Digit Right Digit	8, 9, u, A, –, n, L, and no display indicate that the Capstan motor "Reverse, Rew, Reverse Slow" commands received by IC6001.	
6	Left digit only, disregard Right digit display.	1 0 Left Digit Right Digit	1, 3, 5, 7, 9, A, n and no display indicate that the cylinder motor "ON" command received by IC6001.	Tape required. If a symbol other than those listed is displayed, a malfunction in that circuit is indicated.

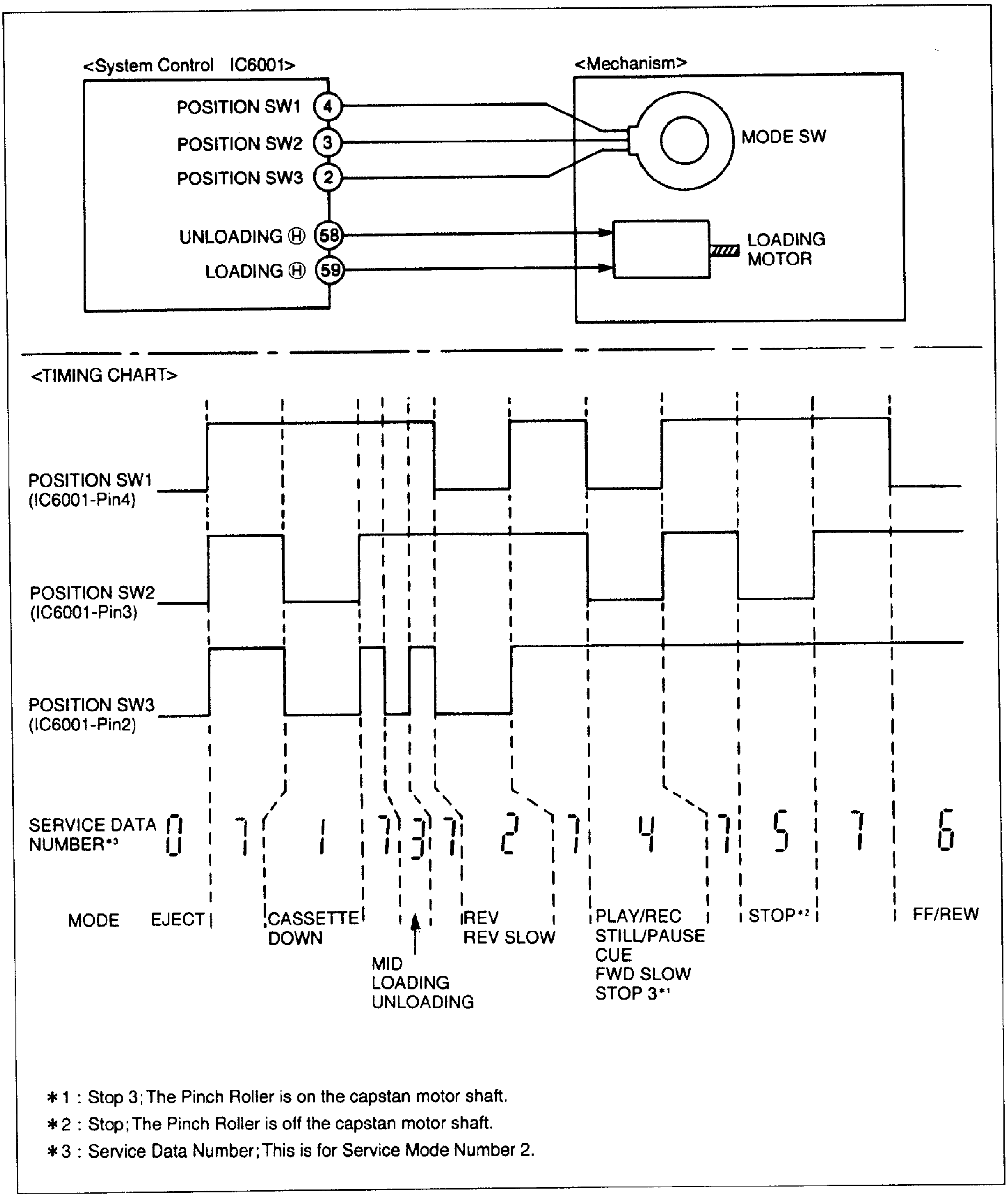
Fig. D5 Service Data Display and Indication

SERVICE DATA NUMBERS	MODE BUTTONS	SERVICE DATA NUMBERS	MODE BUTTONS
3n	OPERATE	06	PAUSE/STILL
01	EJECT	54	RESET
-0	INPUT SELECT	5	ZERO STOP
—	SP/LP	49,4U	INDEX
34,35	∧ ∨, + −	A1,A2	TRACKING (+, −)/V-LOCK
—	CANCEL	0	SLOW
—	MENU	57	OSD
A4	TIMER REC	00	STOP
08	REC	03,02	FF, REW
33	AUDIO OUT	55	DISPLAY
—	SHOW VIEW/G-CODE/VIDEO PLUS	0U	PLAY

Fig. D6 Service Data Display for Service mode 4

1-3-5. Timing Chart from Mode SW to System control IC6001

System control IC6001 senses the mechanism position through the Mode SW.
Fig. D7 shows the timing for Service Mode Number 2.


<System Control IC6001>
POSITION SW1 ④
POSITION SW2 ③
POSITION SW3 ②
UNLOADING Ⓗ (58)
LOADING Ⓗ (59)
<Mechanism>
MODE SW
LOADING MOTOR
<TIMING CHART>
POSITION SW1 (IC6001-Pin4)
POSITION SW2 (IC6001-Pin3)
POSITION SW3 (IC6001-Pin2)
SERVICE DATA NUMBER*3
0 7 1 7 3 7 2 7 4 7 5 7 6
MODE
EJECT
CASSETTE DOWN
MID
LOADING
UNLOADING
REV
REV SLOW
PLAY/REC
STILL/PAUSE
CUE
FWD SLOW
STOP 3*1
STOP*2
FF/REW

∗1 : Stop 3; The Pinch Roller is on the capstan motor shaft.

∗2 : Stop; The Pinch Roller is off the capstan motor shaft.

∗3 : Service Data Number; This is for Service Mode Number 2.

Fig. D7 Timing Chart of Mode SW

1-3-6. Input/Output Chart for IC6001

<table>
<tr><th>Pin Number</th><th>Input/Output</th><th>Port Name</th><th>Function</th></tr>
<tr><td>1</td><td>I</td><td>SAFETY TAB</td><td>When inserting the cassette tape with safety tab, this port is low. When there is no safety tab, this port is high to prevent recording.</td></tr>
<tr><td>2</td><td>I</td><td>POSITION SW 3</td><td rowspan="3"><table>
<tr><th>P. SW 3</th><th>P. SW 2</th><th>P. SW 1</th><th>Position (Mode) Name</th></tr>
<tr><td>O</td><td>O</td><td>O</td><td>EJECT</td></tr>
<tr><td>O</td><td>O</td><td>I</td><td>CASSETTE DOWN</td></tr>
<tr><td>O</td><td>I</td><td>O</td><td>REV, REV SLOW</td></tr>
<tr><td>O</td><td>I</td><td>I</td><td>MID (LOADING/UNLOADING)</td></tr>
<tr><td>I</td><td>O</td><td>O</td><td>PLAY/REC, STILL/PAUSE, CUE, FWD SLOW STOP3 *1</td></tr>
<tr><td>I</td><td>O</td><td>I</td><td>STOP</td></tr>
<tr><td>I</td><td>I</td><td>O</td><td>FF/REW</td></tr>
<tr><td>I</td><td>I</td><td>I</td><td>INTERMEDIATE</td></tr>
</table>(*1) The Pinch Roller is on the capstan motor shaft.</td></tr>
<tr><td>3</td><td>I</td><td>POSITION SW 2</td></tr>
<tr><td>4</td><td>I</td><td>POSITION SW 1</td></tr>
<tr><td>5</td><td>I</td><td>SUPPLY REEL PULSE</td><td>Supply Reel Pulse Input
(For detecting tape remaining)</td></tr>
<tr><td>6</td><td>I</td><td>NORMAL/ SERVICE/TEST</td><td>Service Mode Setting
Normal Mode : High
Service Mode : Middle
Test Mode : Low</td></tr>
<tr><td>7</td><td>I</td><td>DEW</td><td>When Dew is detected, this port is middle. Normally, this port is Low.</td></tr>
<tr><td>8</td><td>I</td><td>TEST</td><td>Not used (Low setting)</td></tr>
<tr><td>9</td><td>I</td><td>ENVELOPE SELECT</td><td>The playback envelope video signal level is detected at this input to select the video head in the special playback modes.</td></tr>
<tr><td>10</td><td>O</td><td>ROTARY SW</td><td>This signal is supplied to the chrominance circuit to perform the phase rotation.</td></tr>
<tr><td>12</td><td>O</td><td>HEAD AMP SWITCH</td><td>This signal is supplied to the head amp circuit to switch the video head, SP or LP.</td></tr>
<tr><td>14</td><td>O</td><td>ARTIFICIAL V/H/N</td><td>Artificial Vertical Sync Signal is supplied to video circuit to stabilize the picture in the special playback modes.</td></tr>
<tr><td>17</td><td>I</td><td>TAKE-UP PHOTO</td><td>Take-up Side Photo Sensor Input
(For detecting tape beginning)</td></tr>
<tr><td>18</td><td>I</td><td>SUPPLY PHOTO</td><td>Supply Side Photo Sensor Input (For detecting tape end.)</td></tr>
<tr><td>19</td><td>I</td><td>TAKE-UP REEL</td><td>Take-up Reel Pulse Input
(For detecting tape remaining and reel (Cap.) lock.)</td></tr>
<tr><td>20</td><td>O</td><td>SP/LP</td><td>Not used</td></tr>
<tr><td>45</td><td>O</td><td>AUDIO H. SW</td><td>This signal is supplied to the head amp circuit to switch the audio head, R or L.</td></tr>
<tr><td>46</td><td>O</td><td>SERIAL CLOCK SELECT</td><td>Refer to Fig. MP4 and MP5.</td></tr>
<tr><td>47</td><td>I</td><td>SYSTEM SEL</td><td>Refer to Fig. MP5.</td></tr>
<tr><td>48</td><td>I</td><td>L CH/R CH</td><td>Refer to Fig. MP4.</td></tr>
<tr><td>49</td><td>I</td><td>BIL/STEREO</td><td>Refer to Fig. MP4.</td></tr>
<tr><td>50</td><td>O</td><td>MESECAM (H)</td><td>Refer to Fig. MP6.</td></tr>
<tr><td>51</td><td>I</td><td>NTSC/PAL</td><td>Refer to Fig. MP4.</td></tr>
</table>

Fig. MP1

Pin Number	Input/Output	Port Name	Function
52	I	TV/VTR	Refer to Fig. MP4.
53	I	MONO 1/2	Refer to Fig. MP4.
54	O	SENSOR LED ON (L)	When turning on the Sensor LED, this port is low. 1) STOP Mode: No lit. 2) FF, REW, CUE, REV Modes: lit. 3) EJECT Mode: blinking. (Cycle: 320msec)
55	O	VOLTAGE CHANGE (H)	When increasing the drive torque of loading motor to perform the FF/REW mode, this port is low.
56	O	DBS (L)	Not used
57	O	NTSC M (H)	Refer to Fig. MP6.
58	O	UNLOADING (H)	When unloading, this port is high.
59	O	LOADING (H)	When loading, this port is high.
60	O	HEAD SW	This signal is supplied to the head amp circuit to switch the video head, R or L.
61	O	CURRENT LIMIT	Capstan torque limitter output
62	O	CAP R/S/F	Capstan Rotation Direction Output Reverse : High Stop : Middle Foward : Low
63	O	SERIAL CLOCK	Serial Clock Output
64	I/O	SERIAL DATA	Serial Data In/Out
65	O	SP (H)	Tape Speed Output SP : High LP : Low
66	O	DELAYED REC (H)	When the video goes to the recording mode after a delay from the video recording command, this port is high.
67	O	DELAYED AUDIO REC (H)	When the audio goes to the recording mode after a delay from the audio recording command, this port is high.
68	O	PAL I (H)	When selecting the PAL-I system during tuner preset.
69	O	REC (H)	When the video goes to the recording mode, this port is high.
70	O	NTSC (L)	System Output NTSC: Low PAL : High
71	O	AUDIO MUTE (H)	When the audio goes to the mute mode, this is high.
72	O	CAPSTAN REVERSE (H)	Not used
73	O	VTR (L)	VTR/TV switch output
74	O	A. DUB (H)	Not used
75	O	CURRENT EMPHASIS (H)	When the servo goes to the edit mode, this is high.
76	O	FF/REW (L)	When the servo goes to the FF/REW mode, this is low.
77	O	FM MUTE (H)	When the FM audio goes to the mute mode, this is high.

Fig. MP2

Pin Number	Input/Output	Port Name	Function
78	O	VIDEO EE (L)	When the video goes to the EE mode, this is low.
79	O	TRICK (L)	When the video goes to the special playback (CUE, REV, SLOW, STILL) mode, this is low.
80	O	POWER OFF (H)	Power ON/OFF Control is low when the power switch is turned on.
82	I	OSC 1	Oscillator input
83	O	OSC 2	Oscillator output
84	I	RESET (L)	When reseting the IC6001, this port is low.

Fig. MP3

		PIN 46 OUTPUT (SCAN OUT)	
		L	H
PIN 48 INPUT (RCH/LCH)	L	R CH	L CH
	H	—	—
PIN 49 INPUT (STER/BIL)	L	STEREO	BILINGUAL
	H	—	—
PIN 51 INPUT (SYSTEM/ DECK TYPE)	L	PAL SYSTEM	TV/VTR COMBINATION TYPE
	H	NTSC SYSTEM	TABLE TYPE
PIN 52 INPUT (TV/VTR)	L	COMPULSION TV	
	H	AUTO	
PIN 53 INPUT (MONO1/2)	L	MONO 2	MONO 1
	H	—	—

Fig. MP4

	PIN 46 OUTPUT L H	MODE
PIN 47 (SYSTEM SEL)	L L	MODE 1
	L H	MODE 2
	H L	MODE 3
	H H	MODE 4

Fig. MP5

	MODE 1, 4	MODE 2	MODE 3
PIN 50 (SYSTEM 1)	MESECAM Ⓗ OUT	MESECAM Ⓗ OUT	NTSC Ⓛ OUT
PIN 57 (SYSTEM 2)	NTSC-M Ⓗ OUT	SECAM Ⓗ OUT	—
PIN 56 (SYSTEM 3)	DBS Ⓛ OUT	DBS Ⓛ OUT	—
PIN 68 (SYSTEM 4)	PAL-I Ⓗ OUT	SECAM Ⓗ OUT	—

Fig. MP6

1-3-7. CVC (CRISTAL VIEW CONTROL) FUNCTION

The playback are adjusted to achieve optimum picture quality from tapes with varying charactristics.

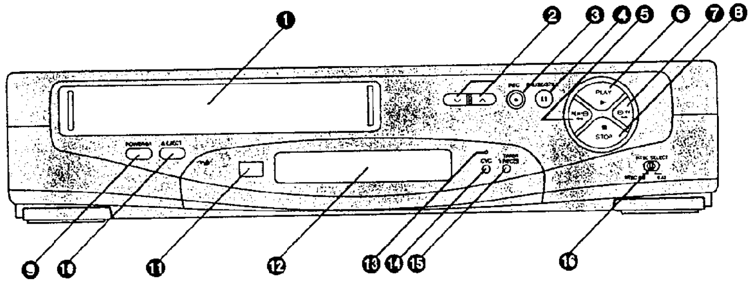
(1) Detail explanation
<Playback mode>
The picture quality is varying from the different tapes as follows:

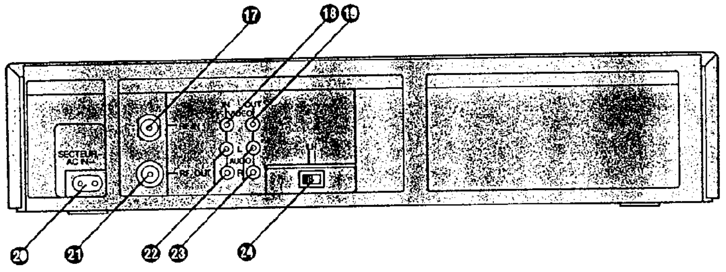
1) If the output level is low, from worn or rental cassette tapes, a soft picture is obtained by the RF equlizer and picture control on the Lumi./Chro. Pack C.B.A.
2) If the output level is medium, from normal tapes, a sharp picture is obtained from the emphasis and picture control on the Lumi./Chro. Pack C.B.A.
3) If the output level is high, from HG/S tapes, a sharp and detailed picture is obtained from the RF equlizer, emphasis picture control and noise canceller on the Lumi./Chro. Pack C.B.A.

1-4. OPERATING INSTRUCTIONS (NV-HD600A/EA)

Controls and Connection Sockets

This gives a detailed explanation of the function of each button, switch and connection socket.





① **Cassette Compartment**
Insert a video cassette here.

② **∨ ∧**
To select the required programme position (TV station).

③ **REC**
To start a recording.

④ **PAUSE/STILL**
During playback: Still picture.
During recording: To interrupt recording.

⑤ **REW (REWIND)**
In the stop mode: To rewind the tape
In the playback mode: To search backward
In the rewind mode: To obtain high speed picture
"◁◁" is lit.

⑥ **PLAY**
To start playback. "▷" is lit.
For the repeat playback function.

⑦ **FF (FAST FORWARD)**
In the stop mode: To fast forward the tape
In the playback mode: To search forward
In the fast forward mode: To obtain high speed picture
"▷▷" is lit.

⑧ **STOP**
To stop any playback or recording.

⑨ **POWER ⏻/I**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still connected to the mains.

⑩ **EJECT**
To eject a video cassette.

⑪ **Infra-red Remote Control Receiver Window**

⑫ **Display**

⑬ **CVC Indicator**
When the AI function is on, this indicator lights up.

⑭ **CVC (Crystal View Control)**
ON: Using the AI function, playback is performed in the state which achieves optimum picture quality in light of characteristics of a tape.
The CVC indicator is lit.
This control should normally be left in the ON position.
OFF: Turn off the AI function.
The CVC indicator is not lit.
With certain tapes, the OFF position may result in a better picture.

⑮ **TIMER REC**
To turn the timer recording function on and off.
⏲ is lit or not lit.
Once operating timer recording function, the normal VTR operation is not possible unless this button is set to off.

⑯ **NTSC SELECT (NV-HD600A only)**
Set according to the colour TV system.
NTSC P.B.: When receiving PAL signals.
For TV's that can only receive PAL signals.
4.43: When receiving NTSC 4.43 signals.
For TV's that can receive NTSC 4.43 signals.

⑰ **RF IN**
To connect to the external aerial.

⑱ **VIDEO IN**
To connect a video cable to a Movie Camera or another video recorder.

⑲ **VIDEO OUT**
To connect a video cable to a TV or another video recorder.

⑳ **AC IN~**
To connect to the main power supply.

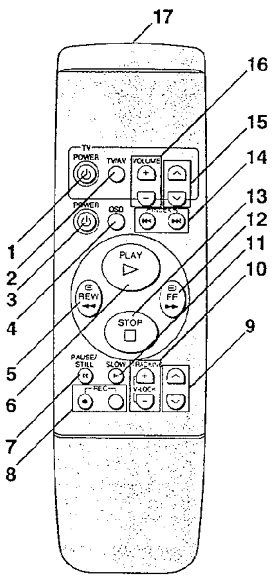
㉑ **RF OUT**
To connect to the aerial terminal on a TV set.

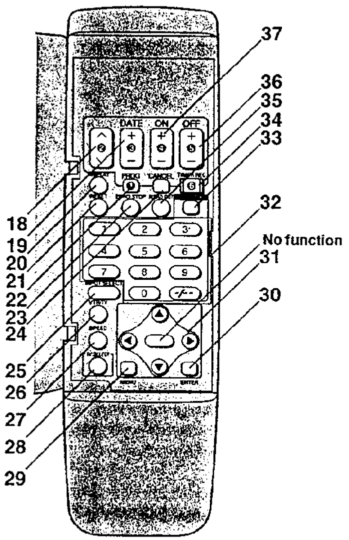
㉒ **AUDIO IN**
To connect an audio cable to a Movie Camera or another video recorder.

㉓ **AUDIO OUT**
To connect an audio cable to a TV or another video recorder.

㉔ **Video Playback Channel Selector**
To select the video playback channel.

Infra-red Remote Controller





1 **POWER (TV)**
To switch the TV from on to standby mode or vice versa. In standby mode, the TV is still connected to the mains.
- With some TV models, it may only be possible to switch the TV to standby mode using this button. In this case, use **TV/AV** or ∨ ∧ **(TV)** to switch the TV on.

2 **TV/AV**
To select the TV input.

3 **POWER (VTR)**
To switch the VTR from on to standby mode or vice versa. In standby mode, the VTR is still connected to the mains.

4 **OSD**
For the On Screen Display Function.

5 **REW (REWIND)**

In the stop mode:	To rewind the tape
In the playback mode:	To search backward
In the rewind mode:	To obtain high speed picture "◁◁" is lit.

6 **PLAY**
To start playback. "▷" is lit.
For the repeat playback function.

7 **PAUSE/STILL**
During playback: Still picture.
During recording: To interrupt recording.

8 **REC**
To start a recording.
- Press both buttons simultaneously.

9 ∨ ∧ **(VTR)**
To select the required programme position (TV station) of the VTR.

10 **TRACKING/V-LOCK**
For manual tracking adjustment
The + and – buttons are used to adjust the tracking when, for example, noise bars on the picture are better removed manually than by the automatic digital tracking control. After making a manual adjustment, press both buttons together to return to automatic digital tracking control.

For slow tracking adjustment
When noise bars appear during Still or Slow playback, switch over to slow playback and adjust with the + or – Button to reduce the noise bars.

For vertical locking adjustment
Use the + and – buttons to minimize any vertical jitter during still-picture playback.

11 **SLOW**
For the slow motion playback function. "▯▷" is lit.

12 **FF (FAST FORWARD)**

In the stop mode:	To fast forward the tape
In the playback mode:	To search forward
In the fast forward mode:	To obtain high speed picture

13 **STOP**
To stop any playback or recording.

14 **INDEX**
For the index search function.

15 ∨ ∧ **(TV)**
To select the required programme position (TV station) of the TV.

16 **VOLUME**
To adjust the volume of the TV.

17 **Infra-red Transmitter**

18 ∨ ∧
To programme a timer recording.

19 **DATE**
To programme a timer recording.

20 **DISPLAY**
To change the indication on the VTR Display.
→Clock→Counter→Remaining Tape Time→

21 **RESET**
To reset the tape counter (elapsed time) to "0:00.00".
- The tape counter is automatically reset to "0:00.00" when a video cassette is inserted.

22 **PROG**
To set and check timer programmes.

23 **ZERO STOP**
For the zero stop function.

24 **CANCEL**
To cancel the settings made for a timer recording.

25 **INPUT SELECT**
To select the "AV" external recording source.

26 **VTR/TV**
To select the VTR mode or TV mode.

27 **SPEED**
To select the tape speed desired for recording.
SP gives the best picture quality.
LP gives the longest recording time.

28 **TV SELECT**
To set the remote controller for operation of the TV.

29 **MENU**
To make OSD menu appear on the TV screen.

30 **ENTER**
To make selections from On Screen Display.

31 ▲ ▼ ◀ ▶
To make selections from On Screen Display.

32 **Programme Position Selector Buttons**
- To select the programme positions (1–99).

9: (9)

19: (-/--)→(1)→(9)

- To programme a G-Code number.

33 **G-Code**
For the G-Code programming.

34 **TIMER REC**
To turn the timer recording function on and off.
⊡ is lit or not lit.
Once operating timer recording function, the normal VTR operation is not possible unless this button is set to off.

35 **AUDIO OUT**
To select the desired sound mode.
At the every push of this button, the audio output mode changes as follows.
→Stereo→Left→Right→Normal audio track→

The Left (L) and Right (R) Indicators on screen display show which sound mode is selected in the following way.

Stereo:	Both the Left (L) and Right (R) Indicators appear.
Left:	The Left (L) Indicator appears.
Right:	The Right (R) Indicator appears.
Normal:	Both the Left (L) and Right (R) Indicators don't appear.

36 **OFF**
To programme a timer recording.

37 **ON**
To programme a timer recording.

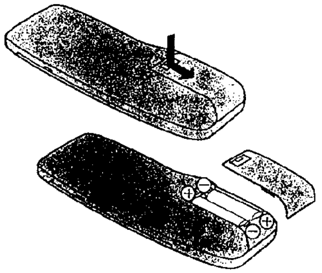
Power Source for the Remote Controller

The remote controller is powered by 2 "AA", "UM3" or "R6" size batteries. The life of the batteries is about one year, although this depends on the frequency of use.

Precautions for Battery Replacement

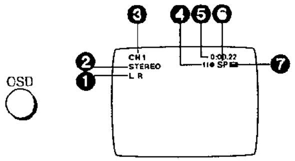
- Load the new batteries with their polarity (⊕ and ⊖) aligned correctly.
- Do not apply heat to the batteries, or an internal short-circuit may occur.
- If you do not intend to use the remote controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new battery together, and never use an alkaline battery with a manganese battery.

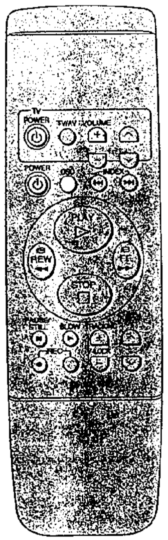
Installing the Batteries



On Screen Display

Press **OSD** to make the On Screen Display appear on the TV screen.
- To make this display disappear, press **OSD** again.


OSD
③
④⑤⑥
②
①
⑦
CH1
STEREO
L R
0:00.22
SP


TV POWER
TV/AV
VOLUME
POWER
OSD
REW
STOP
STILL
SLOW
REC

① **Audio Output Mode Indicators**
The Left (L) and Right (R) Indicators show which sound mode is selected with **AUDIO OUT**.

Stereo: Both the Left (L) and Right (R) Indicators appear.
Left: The Left (L) Indicator appears.
Right: The Right (R) Indicator appears.
Normal: Both the Left (L) and Right (R) Indicators don't appear.

② **STEREO or BILINGUAL Indicator (NV-HD600A)**
When receiving a TV programme, the type of sound system in which it is broadcast is automatically indicated.

STEREO, M1 and M2 Indicator (NV-HD600EA)
When receiving a TV programme with the NICAM sound system, the type of sound system in which it is broadcast is automatically indicated.

STEREO:	When receiving a NICAM stereo broadcast.
M1 M2:	When receiving a NICAM dual-sound broadcast.
M1:	When receiving a NICAM monaural broadcast.

③ **Programme position**

④ **Tape running display**

Stop, Eject	
Rewind, Review	◀◀
Fast Forward, Cue	▶▶
Playback	▶
Still Playback	❚❚
Recording	●
Recording Pause	❚❚●
Slow Playback	❚▶

⑤ **Present time/Tape counter**

Information	Display
Present time	17:24
Tape counter	−2:35.47
Remaining Tape Time	REMAIN 2:34
Dew*	DEW
Index search	S 01

*Only for NV-HD600A.

⑥ **Tape speed indicator**

⑦ **Cassette-in Indicator**

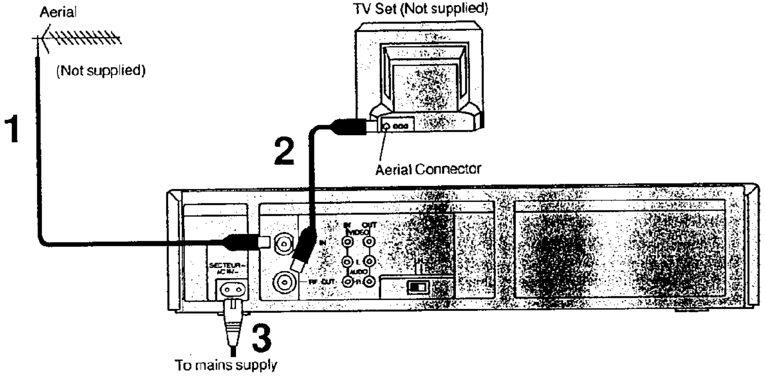
Note:
On Screen Display may be disturbed or disappear during special playback.

Connections

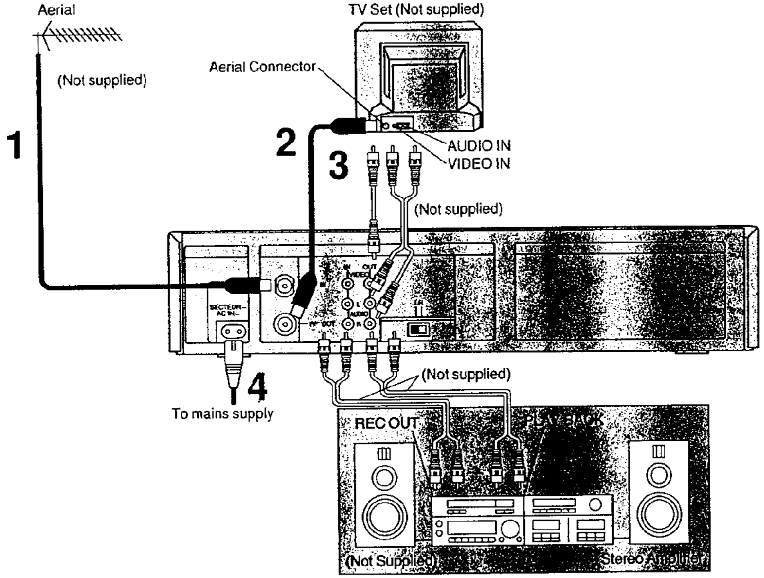
This tells you how to connect with an aerial, TV, etc.

Basic Connections

The following connections are required to record and play back the VTR through TV set:

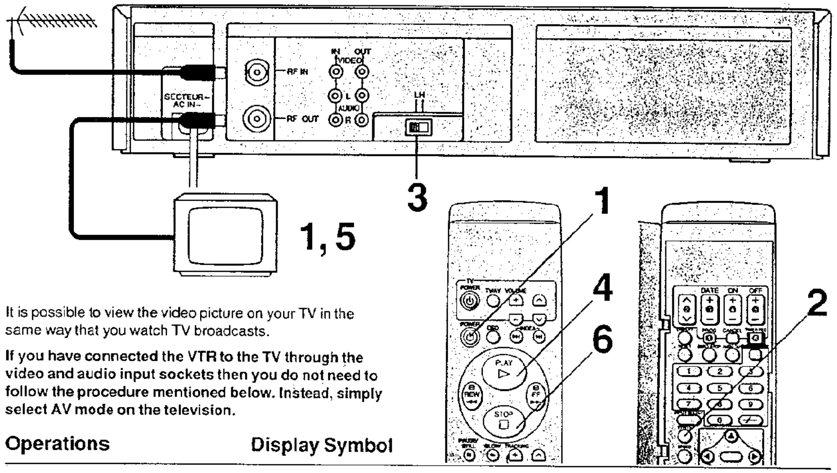

Aerial
(Not supplied)
TV Set (Not supplied)
1
2
Aerial Connector
3
To mains supply

Connection to a TV Set with the Audio/Video Input Sockets


Aerial
(Not supplied)
TV Set (Not supplied)
Aerial Connector
1
2
3
AUDIO IN
VIDEO IN
(Not supplied)
4
To mains supply
(Not supplied)
REC OUT
PLAYBACK
(Not Supplied)
Stereo Amplifier

- **Connection to a Stereo Amplifier**

Tuning the TV to your VTR



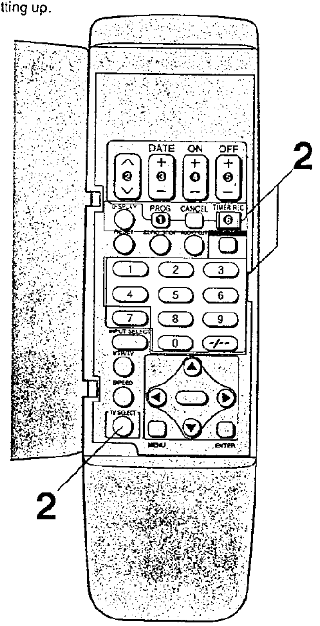
It is possible to view the video picture on your TV in the same way that you watch TV broadcasts.

If you have connected the VTR to the TV through the video and audio input sockets then you do not need to follow the procedure mentioned below. Instead, simply select AV mode on the television.

Operations		Display Symbol	
1	POWER		Turn on the TV and VTR.
2	VTR/TV	VTR	Select the VTR mode.
3	LH		Select the video playback channel which is not occupied with any TV station. **NV-HD600A:** H: Channel 1 L: Channel 0 **NV-HD600EA:** H: Channel 3 L: Channel 2
4	PLAY ▷		Insert a **pre-recorded** cassette tape and press **PLAY.**
5			Select a programme number on the TV set which you wish to use as the video viewing channel. Then tune in the TV to the picture from the cassette tape currently playing. **NV-HD600A:** In some areas channel 0 may be used by local TV station. In this case switch to channel 1.
6	STOP □		Stop the playback.

Setting the Remote Controller for Operation of your TV

You can operate some manufacturer of TVs (see following table) using the supplied Remote Controller after this setting up.



Preparation
Install the batteries in the remote controller. See page 7.

Operations

1 Turn on the TV.

2 Press corresponding operation button to your TV manufacturer (see following table) while keeping **TV SELECT** pressed.
- If setting is correct, TV will be turned off automatically.

TV Manufacturer	Operation Button
Panasonic/National	TV SELECT + DISPLAY
	TV SELECT + PROG ⓿
	TV SELECT + CANCEL
	TV SELECT + TIMER REC ❻
SONY	TV SELECT + 1
TOSHIBA	TV SELECT + 2
JVC	TV SELECT + 3
HITACHI	TV SELECT + 4
MITSUBISHI	TV SELECT + 5
	TV SELECT + 6
SHARP	TV SELECT + 8
PHILIPS	TV SELECT + 9
NEC	TV SELECT + 0
SANYO	TV SELECT + -/--

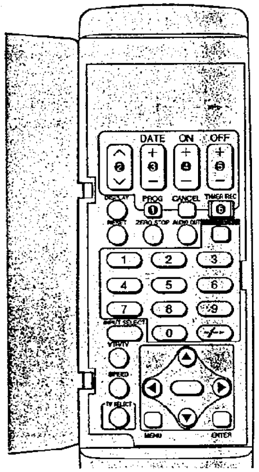
When the TV manufacturer is Panasonic/National or MITSUBISHI:
When the TV's power is turned off in step 2 above, turn it back on and adjust the TV's volume using this remote controller. The volume can be adjusted if the operation button matches the manufacturer of TV.
If it is not possible to adjust the TV's volume, try pressing the other operation button to match the manufacturer of TV again until the volume can be adjusted.

Note:
Some TV models cannot be operated using this remote controller.

Language Setting of On Screen Display

Preparations

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.
- Press **VTR/TV** to select the VTR mode.



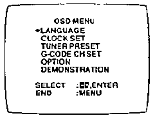
To select the Desired Language

Select one of the two languages displayed: English and Russian.

On Screen Display

1 Press **MENU**.

MENU

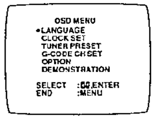


```
OSD MENU
•LANGUAGE
 CLOCK SET
 TUNER PRESET
 G-CODE CH SET
 OPTION
 DEMONSTRATION

SELECT   :▲▼,ENTER
END      :MENU
```

2 Select **LANGUAGE**.

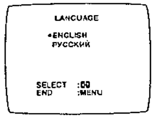
ENTER



```
OSD MENU
•LANGUAGE
 CLOCK SET
 TUNER PRESET
 G-CODE CH SET
 OPTION
 DEMONSTRATION

SELECT   :▲▼,ENTER
END      :MENU
```

3 Select the desired language.



```
LANGUAGE
•ENGLISH
 РУССКИЙ

SELECT   :▲▼
END      :MENU
```

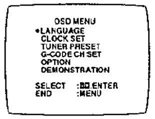
4 Press **MENU** twice.

MENU

To View a Demonstration

1 Press **MENU**.

MENU

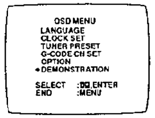


```
OSD MENU
•LANGUAGE
 CLOCK SET
 TUNER PRESET
 G-CODE CH SET
 OPTION
 DEMONSTRATION

SELECT   :▲▼,ENTER
END      :MENU
```

2 Select **DEMONSTRATION**.

ENTER



```
OSD MENU
 LANGUAGE
 CLOCK SET
 TUNER PRESET
 G-CODE CH SET
 OPTION
•DEMONSTRATION

SELECT   :▲▼,ENTER
END      :MENU
```

- During Demonstration mode, all the On Screen Displays are displayed one after the other at about five second intervals.

3 Press **MENU** to stop the Demonstration.

MENU

Note:
The Menu Screen has a blue background. However, if there is no signal input during AV is selected, the Menu Screen may change to black and white when **MENU** is pressed. This does not indicate a malfunction.
If this happens, either input a signal or select other programme position.

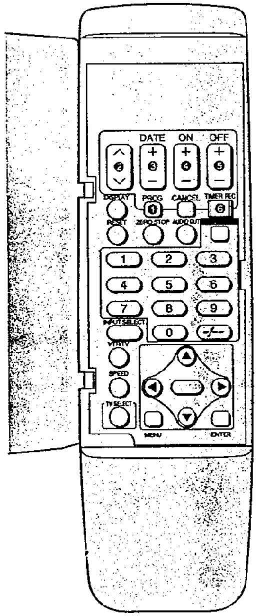
Setting the Clock of the VTR

The built-in clock is used to activate the timer for automatic recording and must be set to the correct time.

The built-in digital clock employs the 24-hour system.

Preparation

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.
- Press **VTR/TV** to select the VTR mode.



Time Reset Function

If the clock is less than two minutes slow or fast, it can easily be reset to the proper time.

For example:
Resetting the clock to 12:00.00.

1 Select **CLOCK SET** from OSD menu and press **ENTER**.

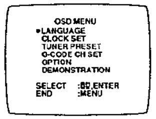
2 When the current clock display on the VTR is between 11:58 to 12:01, press **MENU** as soon as you hear the 12:00.00 time signal. This resets the time to 12:00.00.

For Example:

Date; 16th, October, 1999
Time; 20:15

Operations **On Screen Display**

1 MENU

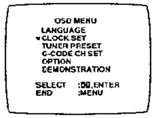


```
OSD MENU
•LANGUAGE
 CLOCK SET
 TUNER PRESET
 G-CODE CH SET
 OPTION
 DEMONSTRATION

SELECT   :▲▼,ENTER
END      :MENU
```

Press **MENU**.

2 ENTER

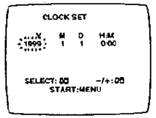


```
OSD MENU
 LANGUAGE
•CLOCK SET
 TUNER PRESET
 G-CODE CH SET
 OPTION
 DEMONSTRATION

SELECT   :▲▼,ENTER
END      :MENU
```

Select **CLOCK SET**.

3 Set each item by pressing ▲ or ▼ and ▶.

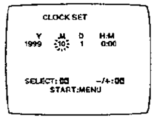


```
CLOCK SET

 Y     M   D   H:M
1999   1   1   0:00

SELECT: ▲▼      –/+:◀▶
     START:MENU
```

Set **Year** "1999".

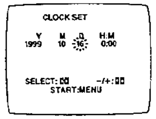


```
CLOCK SET

 Y     M   D   H:M
1999   10  1   0:00

SELECT: ▲▼      –/+:◀▶
     START:MENU
```

Set **Month** "10".

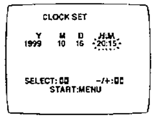


```
CLOCK SET

 Y     M   D   H:M
1999   10  16  0:00

SELECT: ▲▼      –/+:◀▶
     START:MENU
```

Set **Date** "16".



```
CLOCK SET

 Y     M   D   H:M
1999   10  16  20:15

SELECT: ▲▼      –/+:◀▶
     START:MENU
```

Set **Time** "20:15".
- When it is kept pressed, the indication changes in 30-minute steps.
- There is no need to press ▶.

4 MENU

Display Symbol

Press **MENU**.
- The clock will start.

Note:
The clock operates for at least 60 minutes by its backup system in the event of power failure.

Storing TV Broadcasts into your VTR

Introduction

The VTR is fitted with its own tuner (just like a normal TV set) and can be pre-set to receive up to 99 TV broadcast stations.

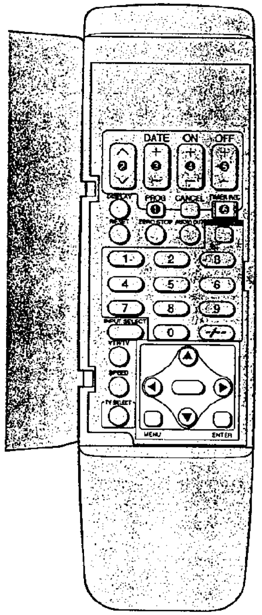
Preparations

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR and select the programme position except AV.
- Press **VTR/TV** to select the VTR mode.

PRE-PROGRAMMED TV CHANNELS (NV-HD600A)

The local TV transmission channels 2, 7, 9 and 10 are factory-preset in this VTR. That is, if you can receive television broadcasts on VHF channels 2, 7, 9 and 10, these are already tuned on the programme positions with the matching numbers.
However, it is possible to cancel these presettings and tune the local TV broadcast channels on any desired programme positions.
For alternative settings and tuning of additional TV broadcasts channels, follow the Tuning Operations.

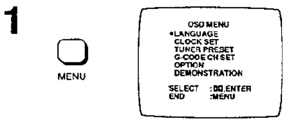
Auto Tuning Procedure



DATE
ON
OFF
1
2
3
4
5
6
7
8
9
0
-/--
MENU
ENTER

Operations **On Screen Display**

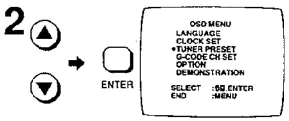
1



MENU
OSD MENU
•LANGUAGE
CLOCK SET
TUNER PRESET
G-CODE CH SET
OPTION
DEMONSTRATION
SELECT :▲▼,ENTER
END :MENU

Press **MENU**.

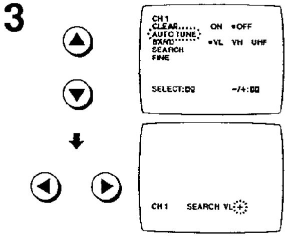
2



ENTER
OSD MENU
LANGUAGE
CLOCK SET
•TUNER PRESET
G-CODE CH SET
OPTION
DEMONSTRATION
SELECT :▲▼,ENTER
END :MENU

Select **TUNER PRESET**.

3



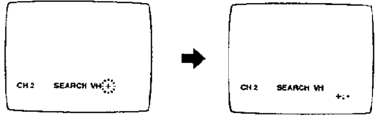
CH 1
CLEAR...... ON •OFF
AUTO TUNE
BAND....... •VL VH UHF
SEARCH
FINE
SELECT:▲▼ -/+:◀▶
CH 1 SEARCH VL+

Select **AUTO TUNE** and press ◀ or ▶.
- When the Auto Tuning finished, On Screen Display disappears and programme position 1 is selected.

Notes:
- The Auto Tuning is searching for TV station from VHF minimum to UHF maximum and memorizing the data for every programme position. The other programme positions are skipped.
- The Auto Tuning takes seven or more minutes to complete the search.
- If VTR is not correctly tuned by Auto Tuning, follow the procedure on next page.

Manual Tuning Procedure

1 Press **MENU**.
2 Select **TUNER PRESET** by pressing ▲ or ▼ and **ENTER**.
3 Select **CH** by pressing ▲ or ▼ and then select the programme position by pressing ◀ or ▶.
4 Confirm that **CLEAR** is set to **OFF**.
5 Select **BAND** by pressing ▲ or ▼ and then select TV band **VL**, **VH** or **UHF** by pressing ◀ or ▶.
6 Select **SEARCH** by pressing ▲ or ▼ and then press ▶.



CH 2 SEARCH VH+
CH 2 SEARCH VH +:•

- If the desired TV station is not be tuned, press ▶ again.
- Press **MENU** and repeat steps **3–6** for each programme position you want to tune to a station.

7 Press **MENU** three times.

Channel Plan

	VHF		UHF
	VL	VH	
NV-HD600A	0–5	5A–12	21–69
NV-HD600EA	1–3	4–11	21–69

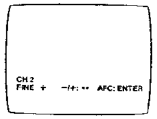
NV-HD600A:

Broadcast TV Channel	Position tuned on VTR
2 ABC	2
7 ATN	7
9 TCN	9
10 TEN	10
28 SBS	28

This table will be required when programming the G-Code.

Fine Tuning Procedure

1 Press **MENU**.
2 Select **TUNER PRESET** by pressing ▲ or ▼ and **ENTER**.
3 Select **CH** by pressing ▲ or ▼ and then select the programme position by pressing ◀ or ▶.
4 Select **FINE** by pressing ▲ or ▼.
5 Press ◀ or ▶ to obtain the best tuning condition.



CH 2
FINE + -/+:◀▶ AFC: ENTER

- To return the tuning to its former state, press **ENTER**.

6 Press **MENU**.

Blanking of Unoccupied Programme positions

1 Press **MENU**.
2 Select **TUNER PRESET** by pressing ▲ or ▼ and **ENTER**.
3 Select **CH** by pressing ▲ or ▼ and then select the programme position by pressing ◀ or ▶.
4 Select **CLEAR** by pressing ▲ or ▼.
5 Select **ON** by pressing ◀ or ▶.
- Repeat steps 3–5 for another unoccupied programme positions to skip during the selection of the programme positions.
- To cancel the blanking of a programme position, select that programme position and then select **CLEAR OFF**.

6 Press **MENU** twice.

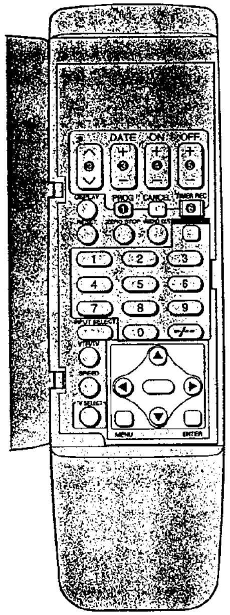
Preparations for G-Code Programming

Identification numbers must be set for G-Code programming. Simply proceed with the G-Code programming operation described on page 26, and the identification numbers of the TV stations concerned will be set automatically. This means that G-Code programming is possible even without performing the operation described on this page. However, you can follow the setting procedure described below if you wish to set the identification numbers of all the TV stations prior to actual programming.

"Identification numbers" refer to the numbers used for identifying the TV stations.
The programme positions on the VTR receiving the TV stations are set in these identification numbers.
Have a newspaper or magazine on hand which lists today's local TV station programmes and G-Code numbers.

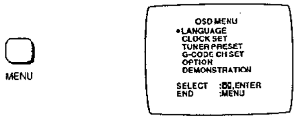
Preparations

- Set the clock of the VTR. See page 13.
- Store TV broadcasts into your VTR. See pages 14 and 15.
- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.
- Press **VTR/TV** to select the VTR mode.

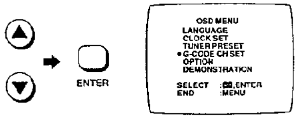

DATE
ON
OFF
PROG
CANCEL
TIMER REC
1
2
3
4
5
6
7
8
9
0
-/--
MENU
ENTER

Operations **On Screen Display**

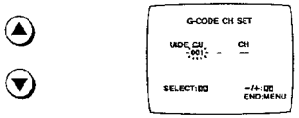
1 Press **MENU**.


MENU
OSD MENU
•LANGUAGE
CLOCK SET
TUNER PRESET
G-CODE CH SET
OPTION
DEMONSTRATION
SELECT :▲▼,ENTER
END :MENU

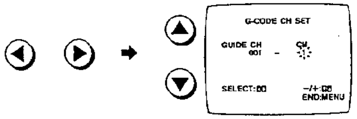
2 Select **G-CODE CH SET**.


ENTER
OSD MENU
LANGUAGE
CLOCK SET
TUNER PRESET
•G-CODE CH SET
OPTION
DEMONSTRATION
SELECT :▲▼,ENTER
END :MENU

3 Select the identification number (001–255).


G-CODE CH SET
GUIDE CH
001
CH
SELECT:▲▼
-/+:◀▶
END:MENU

4 Press ◀ or ▶ and then select the programme position (1–99, AV).


G-CODE CH SET
GUIDE CH
001
CH
1
SELECT:▲▼
-/+:◀▶
END:MENU

- To set the other TV stations, press ◀ or ▶ and then repeat steps **3** and **4**.

5 Press **MENU** twice.

Note:
To receive satellite stations, the satellite receiver must be connected to the VTR and programme position must be set depending on the type of the connection mode.
AV: When the satellite receiver is connected to the Audio/Video input sockets.
- When the satellite receiver is connected by means of the RF coaxial cable, set to a free programme position between 1 and 99.

For Example:
(NV-HD600A)

TV Station	Programme Position on VTR	Identification Number
ABC	2	002
ATN	7	007
TCN	9	009
TEN	10	010
SBS	23	028/001

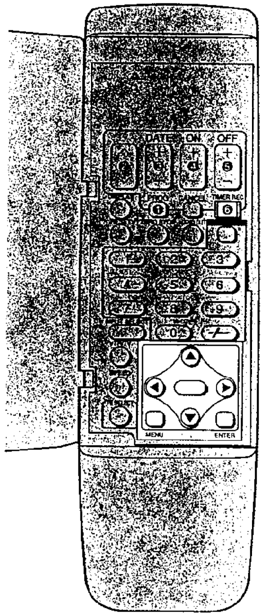
For Example:
(NV-HD600EA)

TV Station	Programme Position on VTR	Identification Number
TV ONE	1	001
CHANNEL 2	2	002
TV3	3	003
SKY TV MOVIES	4	004
SKY TV SPORTS	5	005
SKY TV NEWS	6	006
SKY ORANGE	7	007
SKY DISCOVERY & TRACKSIDE	8	008
CTV	9	009

Settings Using On Screen Display

Preparations

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.
- Press **VTR/TV** to select the VTR mode.

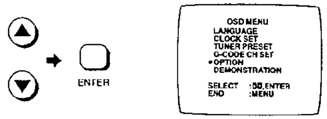

DATE
ON
OFF
TIMER REC
MENU
ENTER

To select the corresponding Cassette Tape Length for displaying the approximate remaining tape time

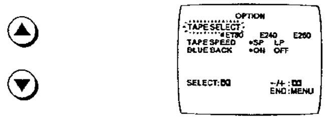
1 Press **MENU**.

2 Select **OPTION**.

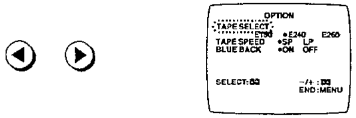
On Screen Display


ENTER
OSD MENU
LANGUAGE
CLOCK SET
TUNER PRESET
G-CODE CH SET
•OPTION
DEMONSTRATION
SELECT :▢▢,ENTER
END :MENU

3 Select **TAPE SELECT**.


OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED •SP LP
BLUE BACK •ON OFF
SELECT:▢▢
–/+ :▢▢
END:MENU

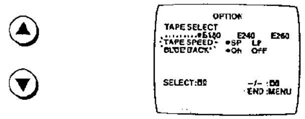
4 Select the corresponding cassette tape length.


OPTION
TAPE SELECT
E180 •E240 E260
TAPE SPEED •SP LP
BLUE BACK •ON OFF
SELECT:▢▢
–/+ :▢▢
END:MENU

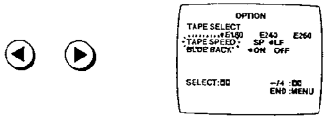
E180: For E30, -60, -90, -120, -150 and -180 tapes
E240: For E240 tape
E260: For E260 and -300 tapes

To select the Desired Tape Speed for the manual recording

1 Select **TAPE SPEED**.


OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED •SP LP
BLUE BACK •ON OFF
SELECT:▢▢
–/+ :▢▢
END :MENU

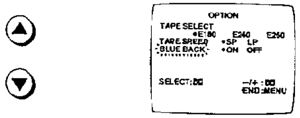
2 Select the desired tape speed.


OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED SP •LP
BLUE BACK •ON OFF
SELECT:▢▢
–/+ :▢▢
END :MENU

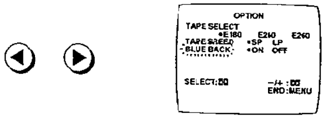
For Blue Background Function

When **BLUE BACK** is **ON**, the screen will always have a blue background when no signal is received or the received signal is very weak.

1 Select **BLUE BACK**.


OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED •SP LP
BLUE BACK •ON OFF
SELECT:▢▢
–/+ :▢▢
END :MENU

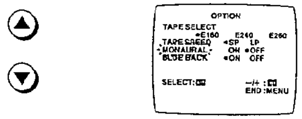
2 Select **ON**.


OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED •SP LP
BLUE BACK •ON OFF
SELECT:▢▢
–/+ :▢▢
END:MENU

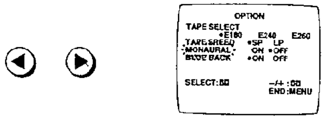
- When **BLUE BACK** is **OFF**, the blue background function does not work.
- It is not possible to record the blue picture of the blue background function.

To select the Sound Mode (NV-HD600EA only)

1 Select **MONAURAL**.


OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED •SP LP
MONAURAL ON •OFF
BLUE BACK •ON OFF
SELECT:▢▢
–/+ :▢▢
END :MENU

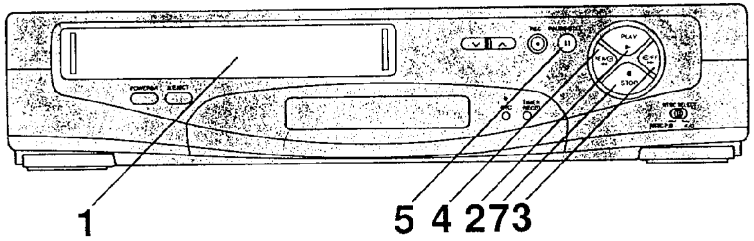
2 Select **OFF**.

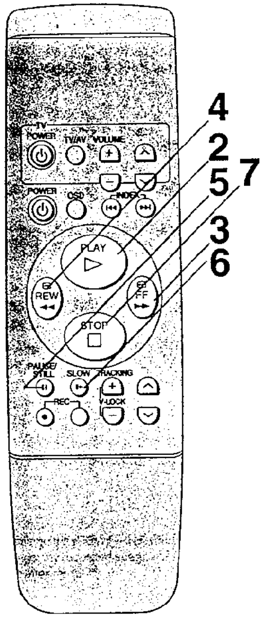

OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED •SP LP
MONAURAL ON •OFF
BLUE BACK •ON OFF
SELECT:▢▢
–/+ :▢▢
END:MENU

- Select **ON** to record the normal sound during a NICAM broadcast or if the stereo sound is distorted due to inferior reception conditions.

After All Settings are selected

Press **MENU** twice to make On Screen Display disappear.





Operations	Display Symbols	
1	oo	Insert a recorded cassette tape.
2 PLAY ▷	▷	Start viewing the picture.
3 FF ►►	▷▷	Search forward by tapping **FF**. •To change back to normal playback, press **PLAY**.
4 REW ◄◄	◁◁	Search backward by tapping **REW**. •To change back to normal playback, press **PLAY**.
5 PAUSE/ STILL	▯▯	View a still picture. •To continue the normal playback, press **PLAY** or **PAUSE/STILL**.
6 SLOW	▯▷	View the slow motion picture. •To continue the normal playback, press **PLAY**.
7 STOP □		Stop viewing the picture.

Other Playback Functions

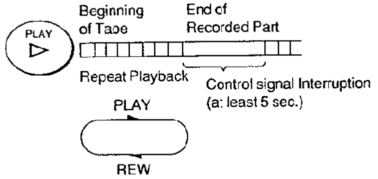
To obtain High Speed Picture During Fast Forward or Rewind

Keep **FF** pressed during fast forward.
Keep **REW** pressed during rewind.

REW ◄◄ FF ►►

To playback the Recorded Part Repeatedly

Keep **PLAY** pressed for more than 5 seconds.



•Press **STOP** to release from Repeat Playback mode.

To return to a Specified Scene

1 Press **RESET** to set the counter to 0:00.00.

RESET

2 After playback, press **ZERO STOP** in the stop mode.
•The tape will be rewound or fast forwarded to 0:00.00 approximately.

ZERO STOP

To find the Beginning of Each Recording

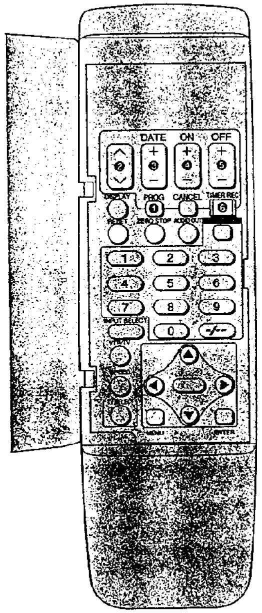
For example:
Searching for the 2nd recorded segment in the forward direction.

Press **INDEX** ►►I twice.

INDEX I◄◄ ►►I 02

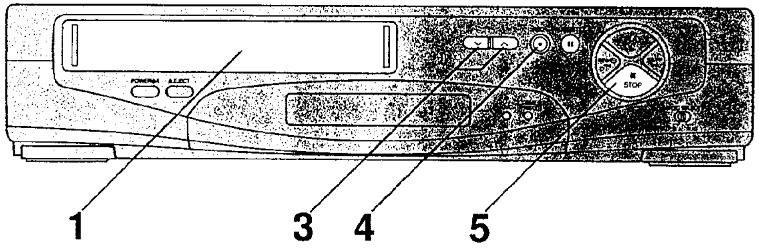
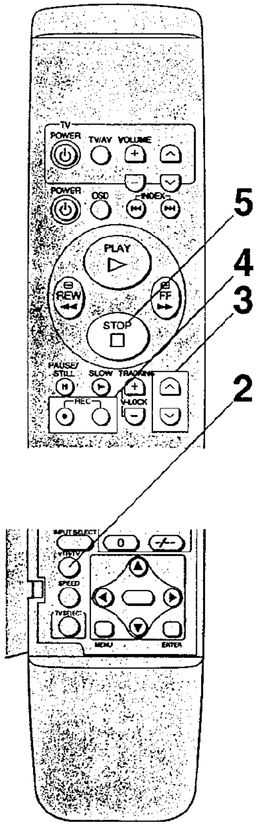
- •After finding the specific recorded segment, playback starts automatically.
- •For the reverse direction, press **INDEX** I◄◄.
- •Up to 20 index signals can be searched for in both directions.
- •When the opposite **INDEX** button is pressed, the number shall be decreased till 1.
- •The figure on the display is decremented by 1 each time an index signal is located.

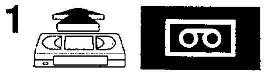
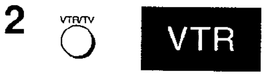
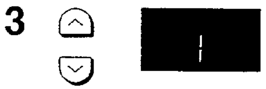
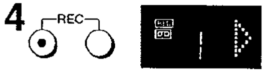
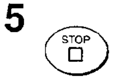
Recording Index Signals
Index signals are recorded in following cases.
- •When a recording is started by pressing **REC**.
- •When **REC** is pressed during recording.
- •When timer recording is activated.



Notes:
- •Audio reproduction of linear (conventionally recorded) tapes will be monaural when played back on the FM Hi-Fi video recorders.
- •Cue, review or slow playback will be automatically released after 10 minutes, and still playback after 5 minutes.
- •The INDEX search function can only work correctly, if the index signals are spaced at least 3 minutes apart in the SP mode and 5 minutes apart in the LP mode.
- •In LP mode only:
  1. During any playback mode other than normal playback, the picture may have some noise bars, the colour may be unstable, or a black and white picture may appear.
  2. When playing back a tape which was recorded on another VTR, it may be necessary to adjust the Tracking Control. In some cases the picture quality may still be inferior. This is due to limitation of format.

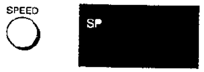
Manual Recording

Operations	Display Symbols	
1		Insert a cassette tape. • If it has already been inserted, press **POWER** to turn the VTR on.
2		Select the VTR mode.
3		Select TV station.
4		Start recording.
5		Stop recording.

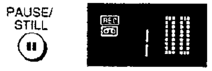
To select the Desired Tape Speed

Press **SPEED** before recording.



To interrupt Recording

Press **PAUSE/STILL** during recording.
Press again to continue recording.



To record One TV Programme while Viewing Another Programme

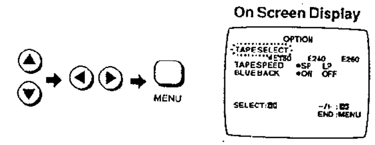
1 Refer to the manual recording operations steps 1 to 4.

2 Press **VTR/TV** to select the TV mode.

3 Select the TV programme on your TV set you wish to view at the present time.

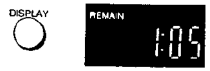
To display the Approximate Remaining Tape Time

1 Select **TAPE SELECT** on **OPTION** on screen display and select the corresponding cassette tape length. See page 18.



E180: For E30, -60, -90, -120, -150 and -180 tapes
E240: For E240 tape
E260: For E260 and -300 tapes

2 Press **DISPLAY**.

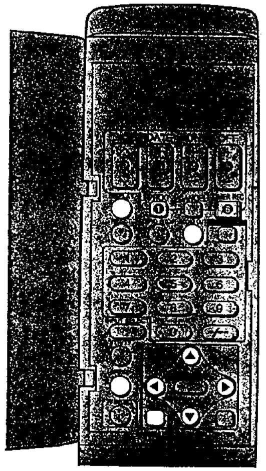


→Clock→Counter→**Remaining Tape Time**

- The remaining tape time may not be displayed correctly depending on the tape used.

Notes:

- When a video cassette with a broken off tab is inserted, the "▣" indication will flash to indicate that recording is not possible.
- The recording pause mode will be automatically released after 5 minutes. Revert back to the stop mode.



The NICAM Broadcast System (NV-HD600EA only)

NV-HD600EA is equipped with the NICAM sound system. NICAM is a 2 Channel sound broadcast system to provide either a high quality stereo sound track or 2 independent MONO sound tracks, M1 and M2.
NICAM programmes are always accompanied by standard sound broadcasts and you can select the desired sound with **AUDIO OUT** during playback.

- The NICAM digital stereo sound can only be recorded on the Hi-Fi audio track.
- To record the regular sound (ordinary normal sound) on the FM audio tracks when a NICAM programme is received, select **MONAURAL ON**.
  See page 19.

Important Note for the NICAM System

When NV-HD600EA is switched on, the tuner will automatically switch to a NICAM broadcast, if NICAM is being transmitted. During test transmissions, it is possible that the sound received doesn't correspond to the picture being viewed. In order to receive a synchronized sound and picture, select monaural sound with **AUDIO OUT** or **MONAURAL ON** setting. This will only apply until NICAM transmissions are fully operational.
At this time the NICAM signal is transmitted on stereo channels only, since the M1 and M2 formats are not yet available. Even if the sound track is in MONO, the stereo indicator will appear.

Timer Recording

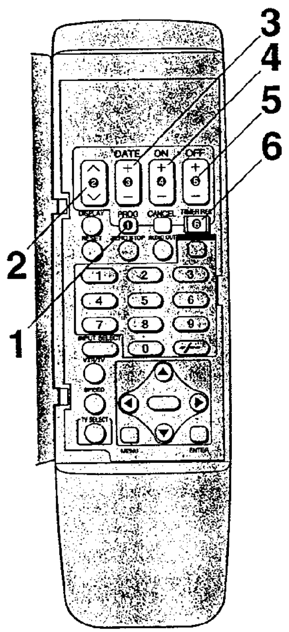
Up to 8 timer programmes can be recorded up to one month in advance by setting the timer, including weekly and daily programmes.

Preparations

- Insert a cassette tape with an intact erasure prevention tab.
- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.
- Press **VTR/TV** to select the VTR mode.

For Example:

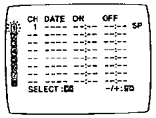
Timer programme number;	1
Programme position (channel);	2
Date;	27th, October
Starting time;	20:02
Ending time;	21:30
(Present date; 16th, October)	



Operations | **On Screen Display**

1 Select **Timer Programme number** "1".

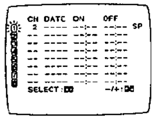
PROG ①



```
CH DATE ON    OFF
 1 ---- --:-- --:-- SP
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
SELECT :■■      −/+:■■
```

2 Set **Programme position** (channel) "2".

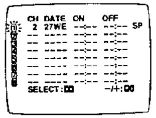
② ∧ ∨



```
CH DATE ON    OFF
 2 ---- --:-- --:-- SP
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
SELECT :■■      −/+:■■
```

3 Set **Date** "27".

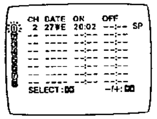
DATE + ③ −



```
CH DATE ON    OFF
 2 27WE --:-- --:-- SP
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
SELECT :■■      −/+:■■
```

4 Set **Starting time** "20:02".

ON + ④ −

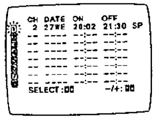


```
CH DATE ON    OFF
 2 27WE 20:02 --:-- SP
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
SELECT :■■      −/+:■■
```

- When it is kept pressed, the indication changes in 30-minute steps.

5 Set **Ending time** "21:30".

OFF + ⑤ −



```
CH DATE ON    OFF
 2 27WE 20:02 21:30 SP
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
SELECT :■■      −/+:■■
```

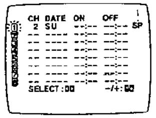
6 To activate timer recording, press **TIMER REC.**

TIMER REC ⑥

Weekly Timer Recording

In step 3, select the desired day by pressing **DATE −**.
For example, SU (Sunday)

DATE + ③ −



```
CH DATE ON    OFF
 2 SU   --:-- --:-- SP
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
SELECT :■■      −/+:■■
```

Daily Timer Recording

For this timer function, several groups of days can be selected.

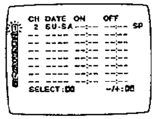
Ⓐ Daily recording from Monday to Friday

Ⓑ Daily recording from Monday to Saturday

Ⓒ Daily recording from Sunday to Saturday

In step 3, select the desired days by pressing **DATE −**.
For example, Ⓒ

DATE + ③ −

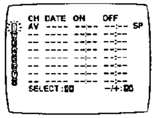


```
CH DATE  ON    OFF
 2 SU-SA --:-- --:-- SP
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT :■■      −/+:■■
```

Timer Recording from External Signal Source

If Timer Recording is performed by a unit connected to the Audio/Video input sockets, select the AV indicator in step 2 for the programme position.

② ∧ ∨

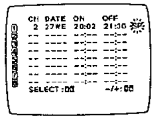


```
CH DATE ON    OFF
AV ---- --:-- --:-- SP
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
SELECT :■■      −/+:■■
```

Selecting the Desired Tape Speed

Press ◀ and then select the desired tape speed by pressing ▲ or ▼ in any of steps 2–5.

◀ → ▲ ▼



```
CH DATE ON    OFF
 2 27WE 20:02 21:30 SP
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
-- ---- --:-- --:--
SELECT :■■      −/+:■■
```

Setting other Programmes in succession

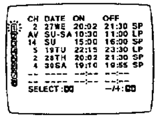
Repeat steps 1–5.

Checking a Timer Programme

- The VTR must be turned on, or the timer recording indicator "⏲" is lit.
- Confirm that the TV is on and the VTR viewing channel is selected.

1 Press **PROG**.

PROG ①



```
CH DATE  ON    OFF
 2 27WE  20:02 21:30 SP
AV SU-SA 10:30 11:00 LP
14 SU    15:00 16:00 SP
 5 19TU  22:15 23:30 LP
 2 28TH  20:02 21:30 SP
 4 30SA  19:10 19:55 SP
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT :■■      −/+:■■
```

2 Press **VTR/TV** to select the VTR mode.

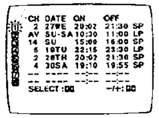
VTR/TV ○

Cancelling a Timer Programme

- The VTR must be turned on, or the timer recording indicator "⏲" is lit.
- Confirm that the TV is on and the VTR viewing channel is selected.

1 Press **PROG**.

PROG ①



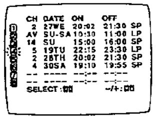
```
CH DATE  ON    OFF
 2 27WE  20:02 21:30 SP
AV SU-SA 10:30 11:00 LP
14 SU    15:00 16:00 SP
 5 19TU  22:15 23:30 LP
 2 28TH  20:02 21:30 SP
 4 30SA  19:10 19:55 SP
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT :■■      −/+:■■
```

2 Press **VTR/TV** to select the VTR mode.

VTR/TV ○

3 Press **PROG** repeatedly until the desired timer programme number is flashed on and off.

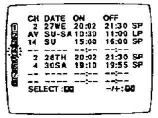
PROG ①



```
CH DATE  ON    OFF
 2 27WE  20:02 21:30 SP
AV SU-SA 10:30 11:00 LP
14 SU    15:00 16:00 SP
 5 19TU  22:15 23:30 LP
 2 28TH  20:02 21:30 SP
 4 30SA  19:10 19:55 SP
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT :■■      −/+:■■
```

4 Press **CANCEL**.

CANCEL ○



```
CH DATE  ON    OFF
 2 27WE  20:02 21:30 SP
AV SU-SA 10:30 11:00 LP
14 SU    15:00 16:00 SP
-- ----  --:-- --:--
 2 28TH  20:02 21:30 SP
 4 30SA  19:10 19:55 SP
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT :■■      −/+:■■
```

Note:
If a timer recording is not performed to the end (due to insufficient tape or cancellation by the user), the programmed timer recording data will be cancelled from the memory by 4 a.m. two days later.
However, if the Timer Record Function is activated at that time, the programmed timer recording data will be cancelled at 4 a.m. the next day.

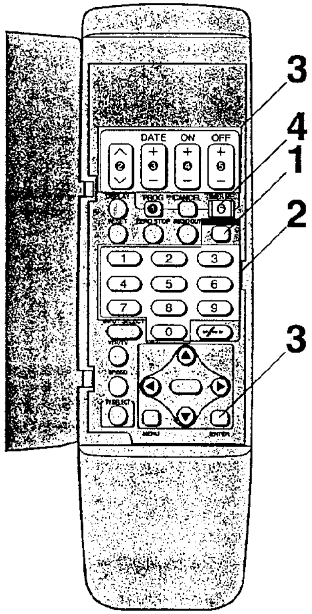
Editing

G-Code Programming

Programming is now easier than ever: simply enter the G-Code number provided in the programme schedule column carried by newspapers and magazines.
G-Code numbers are numbers which are assigned to each programme listed in the TV programme schedule carried in newspapers and TV guides. When these numbers are entered, the numbers are converted into the actual programming.

Preparations

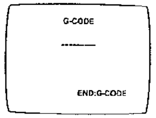
- Insert a cassette tape with an intact erasure prevention tab.
- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.
- Press **VTR/TV** to select the VTR mode.


3
4
1
2
3
DATE
ON
OFF

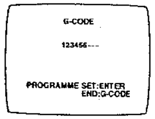
Operations — On Screen Display

1 Press **G-CODE**.

G-CODE


G-CODE
END:G-CODE

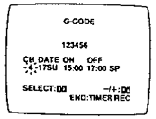
2 Enter a G-Code number.
Example: 123456


G-CODE
123456---
PROGRAMME SET:ENTER
END:G-CODE

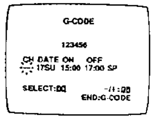
- If you have entered the wrong number, press **CANCEL** and then enter the proper number.

3 Press **ENTER**.

ENTER


G-CODE
123456
CH DATE ON OFF
4 17SU 15:00 17:00 SP
SELECT:
−/+:
END:TIMER REC

- Confirm that the number corresponds to the right programme. If the display looks like this:


G-CODE
123456
CH DATE ON OFF
17SU 15:00 17:00 SP
SELECT:
−/+:
END:G-CODE

select the programme position of your VTR which receives the TV station you entered at step **2** using button ❷ and then press **ENTER**.

- To make any corrections, use buttons ❸–❻ as the same way on page 24.

4 Press **TIMER REC**.

TIMER REC ❻

Notes:

- To select the desired tape speed, press **SPEED** before programming.
- When the G-Code number is used for programming, the recording time may be slightly longer than the actual programme time.
- Repeat steps **2** and **3** if "PROGRAMME IS INCOMPLETE." appears.
- When programming two or more programmes, repeat steps **1**–**3** before pressing **TIMER REC**.
- The procedures for checking and cancelling a timer programme are the same as on page 25.

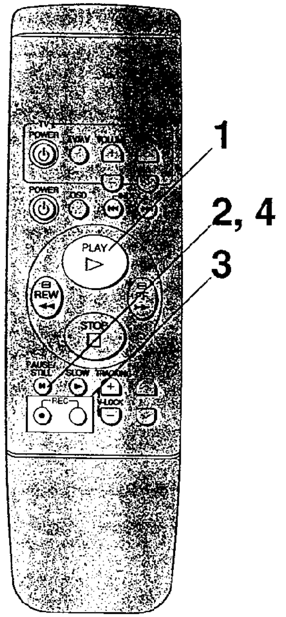
Assembly Editing

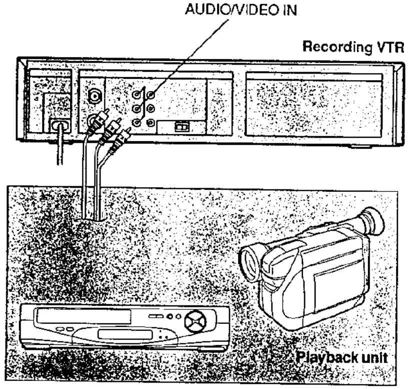
This function can be used to make up an edited tape from other recordings or video sources.

A new scene can be added to the end of a previous one.

Preparations

- Connect a movie camera or another VTR to this VTR as shown.
- Insert a recorded cassette tape with an intact erasure prevention tab.
- Select the video source required by pressing **INPUT SELECT** to set AV.
- NV-HD600A only
  Set **NTSC SELECT**.
  NTSC P.B.: When recording in the PAL system.
  4.43: When recording NTSC 4.43 signals from External Signal Source.
  When dubbing a tape recorded in the NTSC system using two of these VTRs.


1
2, 4
3
POWER
PLAY
REW
STOP
REC


AUDIO/VIDEO IN
Recording VTR
Playback unit

Operations

1 Search for the end of the previous recording.

PLAY

2 Press **PAUSE/STILL**.

PAUSE/STILL

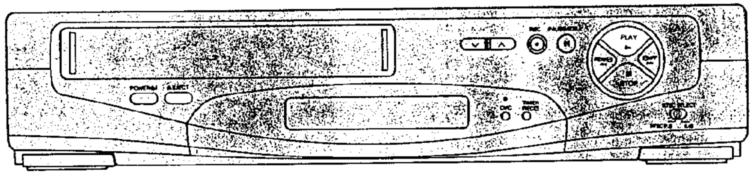
3 Press **REC** to switch the VTR from the pause mode to the recording standby mode.

REC

4 Start the new recording by pressing **PAUSE/STILL** again.

PAUSE/STILL

Other Functions



NTSC Playback

Tapes recorded in the NTSC system can be played back with this VTR via a PAL system TV set.

- NV-HD600A only
  Set **NTSC SELECT** according to the colour TV system of the TV set.
  NTSC P.B.: For TV's that can only receive PAL signals.
  4.43: For TV's that can receive NTSC 4.43 signals.

A note about NTSC playback on PAL TV

On some TVs, the playback picture may roll up or down: adjust this using the V-HOLD control on the TV. TVs not equipped with a V-HOLD control cannot correct this condition. The playback picture will shrink vertically, and black bars will appear both on the top and bottom of the screen. This is not an indication of a malfunction.

- During Cue, Review, Still or Slow playback, the picture may not be in colour.
- This function is designed only to allow the playback of tapes recorded by NTSC signals on a PAL system TV. The NTSC signal is not completely converted to a PAL signal. For this reason, images played back by this function cannot be recorded on another VTR.

Other Automatic Functions

Automatic playback

When a cassette without an erasure prevention tab is inserted, the VTR starts playback automatically.

VTR-off playback

When the VTR is off, an inserted cassette can be played back by pressing **PLAY**.

Automatic rewinding

When the tape reaches its end during recording (except for timer recording) or playback, it will automatically be rewound to the beginning.

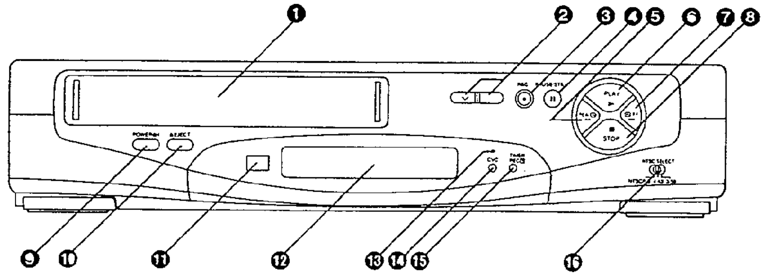
Automatic switching off and ejection

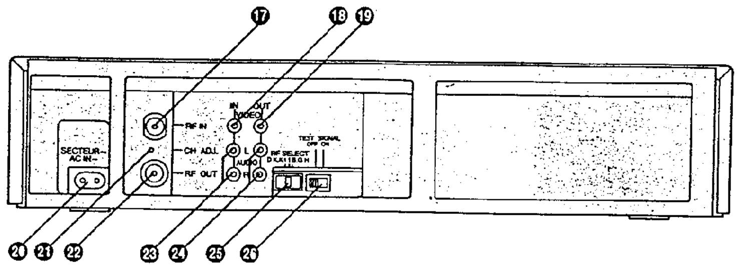
When the VTR is switched off, an inserted cassette can be ejected simply by pressing **EJECT**. The VTR will eject the cassette and automatically turn itself off again.

1-5. OPERATING INSTRUCTIONS (NV-HD600BD)

Controls and Connection Sockets

This gives a detailed explanation of the function of each button, switch and connection socket.





① **Cassette Compartment**
Insert a video cassette here.

② ∨∧
To select the required programme position (TV station).

③ REC
To start a recording.

④ PAUSE/STILL
During playback: Still picture.
During recording: To interrupt recording.

⑤ REW (REWIND)

In the stop mode:	To rewind the tape
In the playback mode:	To search backward
In the rewind mode:	To obtain high speed picture

"◁◁" is lit.

⑥ PLAY
To start playback. "▷" is lit.
For the repeat playback function.

⑦ FF (FAST FORWARD)

In the stop mode:	To fast forward the tape
In the playback mode:	To search forward
In the fast forward mode:	To obtain high speed picture

"▷▷" is lit.

⑧ STOP
To stop any playback or recording.

⑨ POWER ⏻/I
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still connected to the mains.

⑩ EJECT
To eject a video cassette.

⑪ **Infra-red Remote Control Receiver Window**

⑫ **Display**

⑬ CVC Indicator
When the AI function is on, this indicator lights up.

⑭ CVC (Crystal View Control)

ON: Using the AI function, playback is performed in the state which achieves optimum picture quality in light of characteristics of a tape.
The CVC indicator is lit.
This control should normally be left in the ON position.

OFF: Turn off the AI function.
The CVC indicator is not lit.
With certain tapes, the OFF position may result in a better picture.

⑮ TIMER REC
To turn the timer recording function on and off.
⏲ is lit or not lit.
Once operating timer recording function, the normal VTR operation is not possible unless this button is set to off.

⑯ NTSC SELECT
Set according to the colour TV system.

NTSC P.B.:	When receiving PAL signals.
4.43:	When receiving NTSC 4.43 signals.
3.58:	When receiving NTSC 3.58 signals.

⑰ **RF IN**
To connect to the external aerial.

⑱ **VIDEO IN**
To connect a video cable to a Movie Camera or another video recorder.

⑲ **VIDEO OUT**
To connect a video cable to a TV or another video recorder.

⑳ **AC IN~**
To connect to the main power supply.

㉑ **CH ADJ.**
To adjust the RF transmitting channel E30–40 (C22–27, US26–39, J25–38).

㉒ **RF OUT**
To connect to the aerial terminal on a TV set.

㉓ **AUDIO IN**
To connect an audio cable to a Movie Camera or another video recorder.

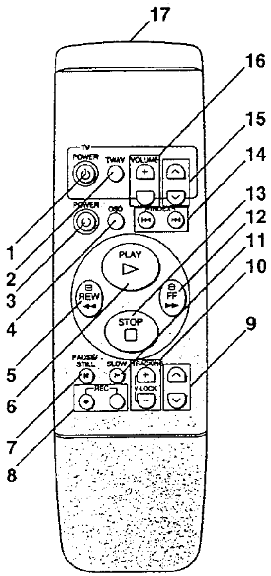
㉔ **AUDIO OUT**
To connect an audio cable to a TV or another video recorder.

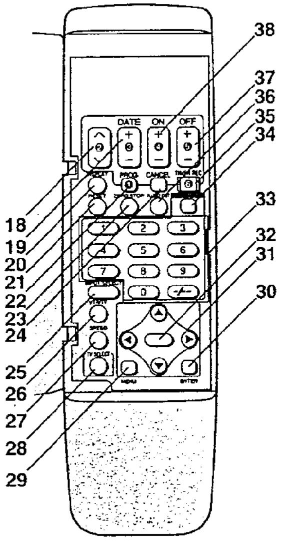
㉕ **RF SELECT**
To select the colour TV system used by the TV set to be connected.

B.G.H:	PAL B.G.H/SECAM B.G
I:	PAL I
D.K.K1:	PAL D/SECAM D.K.K1

㉖ **TEST SIGNAL**
The test signal is transmitted on channel C25 (CHINA), E38 (CCIR), US between 36 and 37 (NTSC) or J between 35 and 36 (NTSC), and VIDEO OUT.

Infra-red Remote Controller





1 **POWER (TV)**
To switch the TV from on to standby mode or vice versa. In standby mode, the TV is still connected to the mains.
- With some TV models, it may only be possible to switch the TV to standby mode using this button. In this case, use TV/AV or ∨ ∧ (TV) to switch the TV on.

2 **TV/AV**
To select the TV input.

3 **POWER (VTR)**
To switch the VTR from on to standby mode or vice versa. In standby mode, the VTR is still connected to the mains.

4 **OSD**
For the On Screen Display Function.

5 **REW (REWIND)**
In the stop mode: To rewind the tape
In the playback mode: To search backward
In the rewind mode: To obtain high speed picture "◁◁" is lit.

6 **PLAY**
To start playback. "▷" is lit.
For the repeat playback function.

7 **PAUSE/STILL**
During playback: Still picture.
During recording: To interrupt recording.

8 **REC**
To start a recording.
- Press both buttons simultaneously.

9 **∨ ∧ (VTR)**
To select the required programme position (TV station) of the VTR.

10 **TRACKING/V-LOCK**
For manual tracking adjustment
The + and – buttons are used to adjust the tracking when, for example, noise bars on the picture are better removed manually than by the automatic digital tracking control. After making a manual adjustment, press both buttons together to return to automatic digital tracking control.

For slow tracking adjustment
When noise bars appear during Still or Slow playback, switch over to slow playback and adjust with the + or – Button to reduce the noise bars.

For vertical locking adjustment
Use the + and – buttons to minimize any vertical jitter during still-picture playback.

11 **SLOW**
For the slow motion playback function. "▯▷" is lit.

12 **FF (FAST FORWARD)**
In the stop mode: To fast forward the tape
In the playback mode: To search forward
In the fast forward mode: To obtain high speed picture "▷▷" is lit.

13 **STOP**
To stop any playback or recording.

14 **INDEX**
For the index search function.

15 **∨ ∧ (TV)**
To select the required programme position (TV station) of the TV.

16 **VOLUME**
To adjust the volume of the TV.

17 **Infra-red Transmitter**

18 **∨ ∧**
To programme a timer recording.

19 **DATE**
To programme a timer recording.

20 **DISPLAY**
To change the indication on the VTR Display.

→Clock→Counter→Remaining Tape Time →

21 **RESET**
To reset the tape counter (elapsed time) to "0:00.00".
- The tape counter is automatically reset to "0:00.00" when a video cassette is inserted.

22 **PROG**
To set and check timer programmes.

23 **ZERO STOP**
For the zero stop function.

24 **CANCEL**
To cancel the settings made for a timer recording.

25 **INPUT SELECT**
To select the "AV" external recording source.

26 **VTR/TV**
No function.

27 **SPEED**
To select the tape speed desired for recording.
SP gives the best picture quality.
LP gives the longest recording time.

28 **TV SELECT**
To set the remote controller for operation of the TV.

29 **MENU**
To make OSD menu appear on the TV screen.

30 **ENTER**
To make selections from On Screen Display.

31 **▲ ▼ ◀ ▶**
To make selections from On Screen Display.

32 No function.

33 **Programme Position Selector Buttons**
- To select the programme positions (1–99).

9: (9)

19: (-/--)→(1)→(9)

- To programme a G-Code number.

34 **G-Code**
For the G-Code programming.

35 **TIMER REC**
To turn the timer recording function on and off.
◫ is lit or not lit.
Once operating timer recording function, the normal VTR operation is not possible unless this button is set to off.

36 **AUDIO OUT**
To select the desired sound mode.
At the every push of this button, the audio output mode changes as follows.

→Stereo→Left→Right→Normal audio track→

The Left (L) and Right (R) Indicators on screen display show which sound mode is selected in the following way.

Stereo: Both the Left (L) and Right (R) Indicators appear.
Left: The Left (L) Indicator appears.
Right: The Right (R) Indicator appears.
Normal: Both the Left (L) and Right (R) Indicators don't appear.

37 **OFF**
To programme a timer recording.

38 **ON**
To programme a timer recording.

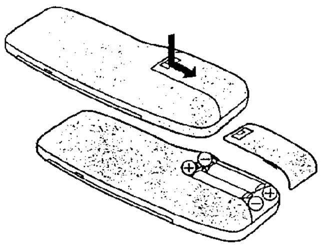
Power Source for the Remote Controller

The remote controller is powered by 2 "AA", "UM3" or "R6" size batteries. The life of the batteries is about one year, although this depends on the frequency of use.

Precautions for Battery Replacement

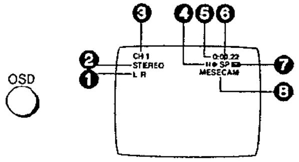
- Load the new batteries with their polarity (⊕ and ⊖) aligned correctly.
- Do not apply heat to the batteries, or an internal short-circuit may occur.
- If you do not intend to use the remote controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new battery together, and never use an alkaline battery with a manganese battery.

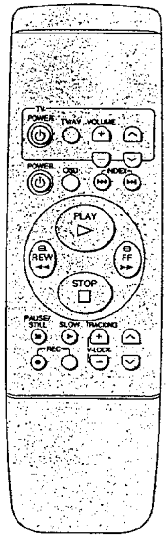
Installing the Batteries



On Screen Display

Press **OSD** to make the On Screen Display appear on the TV screen.
- To make this display disappear, press **OSD** again.


OSD
③
④⑤⑥
②
①
⑦
⑧
CH 1
STEREO
L R
0:00.22
SP
MESECAM


TV
POWER
TV/AV
VOLUME
POWER
OSD
INDEX
PLAY
REW
FF
STOP
PAUSE/STILL
SLOW
TRACKING
REC
V-LOCK

① **Audio Output Mode Indicators**
The Left (L) and Right (R) Indicators show which sound mode is selected with **AUDIO OUT.**

Stereo: Both the Left (L) and Right (R) Indicators appear.
Left: The Left (L) Indicator appears.
Right: The Right (R) Indicator appears.
Normal: Both the Left (L) and Right (R) Indicators don't appear.

② **STEREO, M1 and M2 Indicator**
When receiving a TV programme with the Stereo, Bilingual or NICAM sound system, the type of sound system in which it is broadcast is automatically indicated.

STEREO: When receiving a Stereo/NICAM stereo broadcast.
M1, M2: When receiving a Bilingual/NICAM dual-sound broadcast.
M1: When receiving a NICAM monaural broadcast.

③ **Programme position**

④ **Tape running display**

Stop, Eject	
Rewind, Review	◀◀
Fast Forward, Cue	▶▶
Playback	▶
Still Playback	❚❚
Recording	●
Recording Pause	❚❚●
Slow Playback	❚▶

⑤ **Present time/Tape counter**

Information	Display
Present time	17:24
Tape counter	−2:35.47
Remaining Tape Time	REMAIN 2:34
Dew	DEW
Index search	S 01

⑥ **Tape speed indicator**

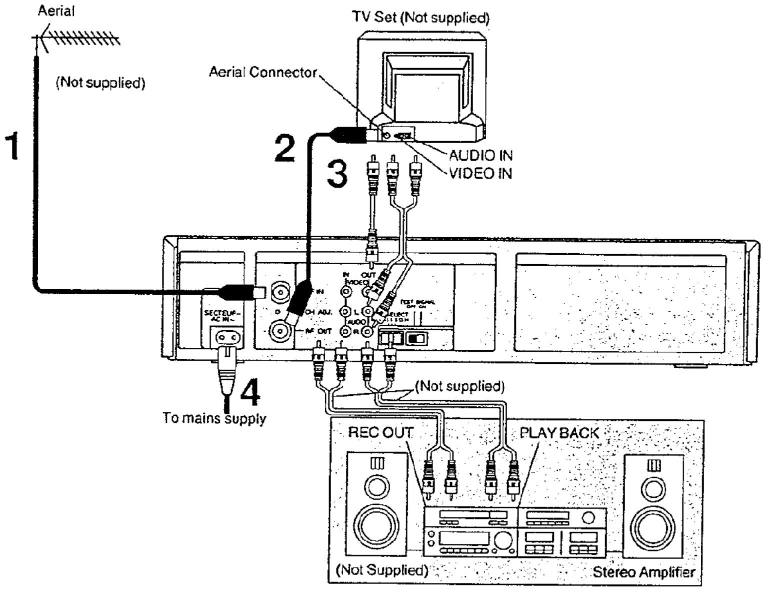
⑦ **Cassette-in indicator**

⑧ **Colour system indicator**
The colour TV system selected appears.
(See page 18.)
- When **AUTO** is selected on **SYSTEM** on screen display, no indicator appear.

Note:
On Screen Display may be disturbed or disappear during special playback.

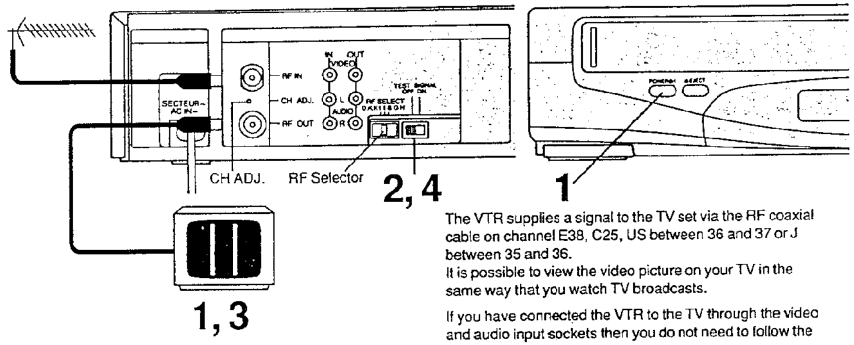
Connections

This tells you how to connect with an aerial, TV, etc.
The following connections are required to record and play back the VTR through TV set:


Aerial
(Not supplied)
1
Aerial Connector
TV Set (Not supplied)
2
3
AUDIO IN
VIDEO IN
4
To mains supply
(Not supplied)
REC OUT
PLAY BACK
(Not Supplied)
Stereo Amplifier

- **Connection to a Stereo Amplifier**

Tuning the TV to your VTR

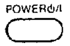


The VTR supplies a signal to the TV set via the RF coaxial cable on channel E38, C25, US between 36 and 37 or J between 35 and 36.
It is possible to view the video picture on your TV in the same way that you watch TV broadcasts.

If you have connected the VTR to the TV through the video and audio input sockets then you do not need to follow the procedure mentioned below.

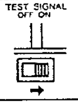
Operations

1



Turn on the TV and VTR.

2

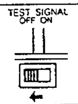


To generate a test pattern, set **TEST SIGNAL** to ON.

3

Set the TV to an unused position which you wish to use for your video playback.

4



Set **TEST SIGNAL** to OFF.

Note:
The test signal is transmitted on video channel C25 (CHINA), E38 (CCIR), US between 36 and 37 (NTSC) or J between 35 and 36 (NTSC). If you are encountering interference from a TV broadcast on this video channel, you may readjust to another free channel (C22–27, E30–40, US26–39, J25–38) by using the CH ADJ. screw which is located on the rear of the VTR.
When rotating the **CH ADJ.** screw, take care not to turn it too far.
Please note that if the **CH ADJ.** screw is used then you will have to retune your TV to the test signal as in item **2** to 4 above.

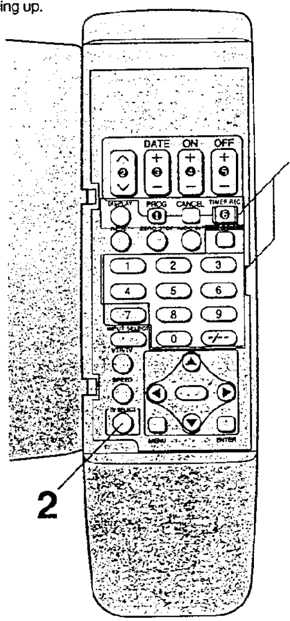
RF Selector
Use the RF Selector to select the colour TV system used by the TV set to be connected.

B.G.H: PAL B.G.H/SECAM B.G
I: PAL I
D.K.K1: PAL D/SECAM D.K.K1

- When **NTSC SELECT** on the front panel is at the 3.58 position during NTSC playback or receiving NTSC system broadcasts, the NTSC 3.58 system will be selected regardless of the position of the RF Selector.

Setting the Remote Controller for Operation of your TV

You can operate some manufacturer of TVs (see following table) using the supplied Remote Controller after this setting up.



Preparation
Install the batteries in the remote controller. See page 7.

Operations

1 Turn on the TV.

2 Press corresponding operation button to your TV manufacturer (see following table) while keeping **TV SELECT** pressed.
- If setting is correct, TV will be turned off automatically.

TV Manufacturer	Operation Button
Panasonic/National	TV SELECT + DISPLAY
	TV SELECT + PROG ①
	TV SELECT + CANCEL
	TV SELECT + TIMER REC ⑥
SONY	TV SELECT + 1
TOSHIBA	TV SELECT + 2
JVC	TV SELECT + 3
HITACHI	TV SELECT + 4
MITSUBISHI	TV SELECT + 5
	TV SELECT + 6
SHARP	TV SELECT + 8
PHILIPS	TV SELECT + 9
NEC	TV SELECT + 0
SANYO	TV SELECT + -/--

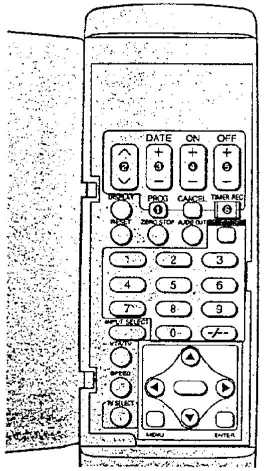
When the TV manufacturer is Panasonic/National or MITSUBISHI:
When the TV's power is turned off in step **2** above, turn it back on and adjust the TV's volume using this remote controller. The volume can be adjusted if the operation button matches the manufacturer of TV.
If it is not possible to adjust the TV's volume, try pressing the other operation button to match the manufacturer of TV again until the volume can be adjusted.

Note:
Some TV models cannot be operated using this remote controller.

Language Setting of On Screen Display

Preparations

- •Confirm that the TV is on and the VTR viewing channel is selected.
- •Turn on the VTR.

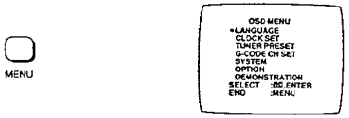

DATE
ON
OFF
PROG
CANCEL
TIMER REC
1
2
3
4
5
6
7
8
9
0
-/--
MENU
ENTER

To select the Desired Language

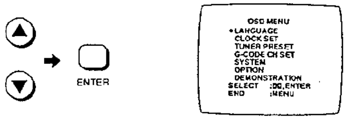
Select one of the two languages displayed: English and Russian.

1 Press **MENU**.

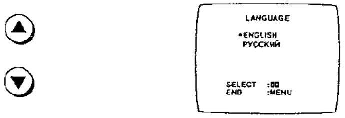
On Screen Display


MENU
OSD MENU
•LANGUAGE
CLOCK SET
TUNER PRESET
G-CODE CH SET
SYSTEM
OPTION
DEMONSTRATION
SELECT :▲▼,ENTER
END :MENU

2 Select **LANGUAGE**.


ENTER
OSD MENU
•LANGUAGE
CLOCK SET
TUNER PRESET
G-CODE CH SET
SYSTEM
OPTION
DEMONSTRATION
SELECT :▲▼,ENTER
END :MENU

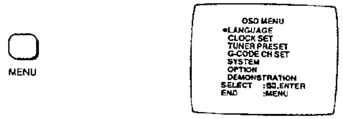
3 Select the desired language.


LANGUAGE
•ENGLISH
РУССКИЙ
SELECT :▲▼
END :MENU

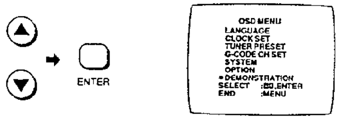
4 Press **MENU** twice.

To View a Demonstration

1 Press **MENU**.


MENU
OSD MENU
•LANGUAGE
CLOCK SET
TUNER PRESET
G-CODE CH SET
SYSTEM
OPTION
DEMONSTRATION
SELECT :▲▼,ENTER
END :MENU

2 Select **DEMONSTRATION**.


ENTER
OSD MENU
LANGUAGE
CLOCK SET
TUNER PRESET
G-CODE CH SET
SYSTEM
OPTION
•DEMONSTRATION
SELECT :▲▼,ENTER
END :MENU

- •During Demonstration mode, all the On Screen Displays are displayed one after the other at about five second intervals.

3 Press **MENU** to stop the Demonstration.

Note:
The Menu Screen has a blue background. However, if there is no signal input during AV is selected, the Menu Screen may change to black and white when **MENU** is pressed.
This does not indicate a malfunction.
If this happens, either input a signal or select other programme position.

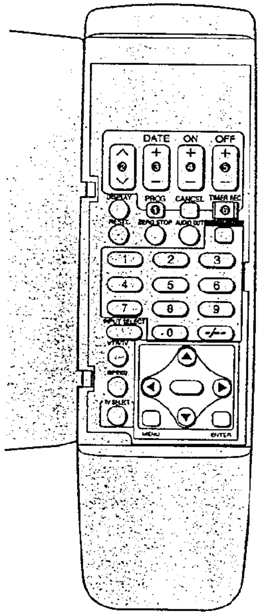
Setting the Clock of the VTR

The built-in clock is used to activate the timer for automatic recording and must be set to the correct time.

The built-in digital clock employs the 24-hour system.

Preparation

- •Confirm that the TV is on and the VTR viewing channel is selected.
- •Turn on the VTR.


DATE
ON
OFF
PROG
CANCEL
TIMER REC
1
2
3
4
5
6
7
8
9
0
-/--
MENU
ENTER

Time Reset Function

If the clock is less than two minutes slow or fast, it can easily be reset to the proper time.

For example:
Resetting the clock to 12:00.00.

1 Select **CLOCK SET** from OSD menu and press **ENTER**.

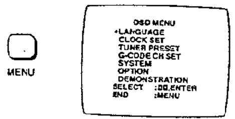
2 When the current clock display on the VTR is between 11:58 to 12:01, press **MENU** as soon as you hear the 12:00.00 time signal. This resets the time to 12:00.00.

For Example:

Date; 16th, October, 1999
Time; 20:15

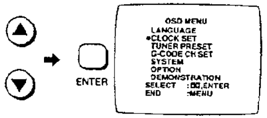
Operations **On Screen Display**

1


MENU
OSD MENU
•LANGUAGE
CLOCK SET
TUNER PRESET
G-CODE CH SET
SYSTEM
OPTION
DEMONSTRATION
SELECT :▲▼,ENTER
END :MENU

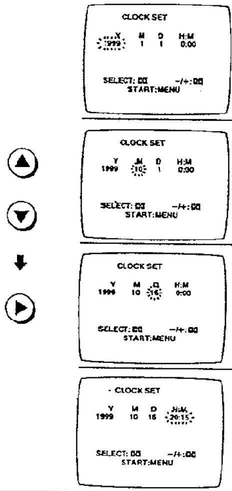
Press **MENU**.

2


ENTER
OSD MENU
LANGUAGE
•CLOCK SET
TUNER PRESET
G-CODE CH SET
SYSTEM
OPTION
DEMONSTRATION
SELECT :▲▼,ENTER
END :MENU

Select **CLOCK SET**.

3 Set each item by pressing ▲ or ▼ and ▶.


CLOCK SET
Y M D H:M
1999 1 1 0:00
SELECT:◀▶ -/+:▲▼
START:MENU
CLOCK SET
Y M D H:M
1999 10 1 0:00
SELECT:◀▶ -/+:▲▼
START:MENU
CLOCK SET
Y M D H:M
1999 10 16 0:00
SELECT:◀▶ -/+:▲▼
START:MENU
CLOCK SET
Y M D H:M
1999 10 16 20:15
SELECT:◀▶ -/+:▲▼
START:MENU

Set **Year** "1999".

Set **Month** "10".

Set **Date** "16".

Set **Time** "20:15".
- •When it is kept pressed, the indication changes in 30-minute steps.
- •There is no need to press ▶

4

Display Symbol

Press **MENU**.
- •The clock will start.

Note:
The clock operates for at least 60 minutes by its backup system in the event of power failure.

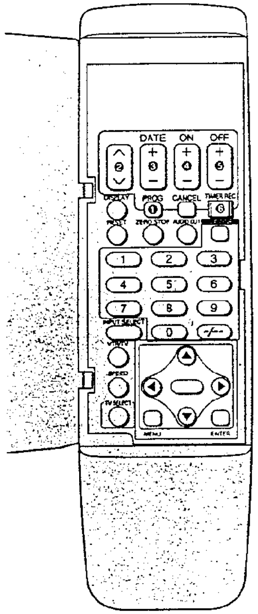
Storing TV Broadcasts into your VTR

Introduction

The VTR is fitted with its own tuner (just like a normal TV set) and can be pre-set to receive up to 99 TV broadcast stations.

Preparations

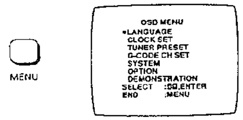
- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR and select the programme position except AV.


DATE
ON
OFF
PROG
CANCEL
TIMER REC
1
2
3
4
5
6
7
8
9
0
-/--
ENTER

Auto Tuning Procedure

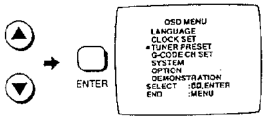
Operations **On Screen Display**

1


MENU
OSD MENU
•LANGUAGE
CLOCK SET
TUNER PRESET
G-CODE CH SET
SYSTEM
OPTION
DEMONSTRATION
SELECT :▲▼,ENTER
END :MENU

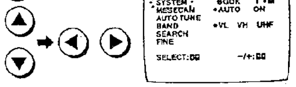
Press **MENU**.

2


ENTER
OSD MENU
LANGUAGE
CLOCK SET
•TUNER PRESET
G-CODE CH SET
SYSTEM
OPTION
DEMONSTRATION
SELECT :▲▼,ENTER
END :MENU

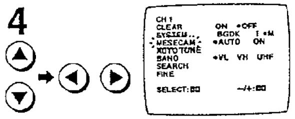
Select **TUNER PRESET**.

3


CH 1
CLEAR ON •OFF
SYSTEM BGDK I •M
MESECAM •AUTO ON
AUTO TUNE
BAND •VL VH UHF
SEARCH
FINE
SELECT:▲▼ −/+:◀▶

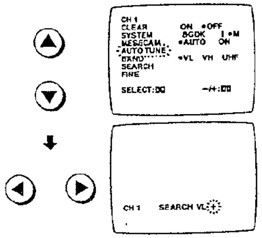
Select **SYSTEM** and select the desired broadcasting system.

4


CH 1
CLEAR ON •OFF
SYSTEM BGDK I •M
MESECAM •AUTO ON
AUTO TUNE
BAND •VL VH UHF
SEARCH
FINE
SELECT:▲▼ −/+:◀▶

Select **MESECAM** and select **AUTO**.

5


CH 1
CLEAR ON •OFF
SYSTEM BGDK I •M
MESECAM •AUTO ON
AUTO TUNE
BAND •VL VH UHF
SEARCH
FINE
SELECT:▲▼ −/+:◀▶
CH 1 SEARCH VL

Select **AUTO TUNE** and press ◀ or ▶.

- When the Auto Tuning finished, On Screen Display disappears and programme position 1 is selected.

Notes:

- The Auto Tuning is searching for TV station from VHF minimum to UHF maximum and memorizing the data for every programme position. The other programme positions are skipped.
- The Auto Tuning takes seven or more minutes to complete the search.
- At every programme position, **SYSTEM** and **MESECAM** settings are set to the same settings selected in step 3 and 4.
- If VTR is not correctly tuned by Auto Tuning, follow the procedure on next page.
- When receiving NTSC system broadcasts, set **NTSC SELECT** to 3.58.

Manual System Setting Procedure

1 Select CH by pressing ∨ or ∧.

2 Press **MENU**.

3 Select **TUNER PRESET** by pressing ▲ or ▼ and **ENTER**.

4 Select **SYSTEM** by pressing ▲ or ▼ and then select the broadcasting system by pressing ◀ or ▶.

- BGDK: For receiving PAL B.G.H.D or SECAM B.G.D.K.K1 system broadcasts.
- I: For receiving PAL I system broadcasts.
- M: For receiving NTSC system broadcasts.

5 Press **MENU** twice.

Manual MESECAM Setting Procedure

1 Select CH by pressing ∨ or ∧.

2 Press **MENU**.

3 Select **TUNER PRESET** by pressing ▲ or ▼ and **ENTER**.

4 Select **MESECAM** by pressing ▲ or ▼ and then select **ON** by pressing ◀ or ▶.

5 Press **MENU** twice.

Manual Tuning Procedure

1 Press **MENU**.

2 Select **TUNER PRESET** by pressing ▲ or ▼ and **ENTER**.

3 Select CH by pressing ▲ or ▼ and then select the programme position by pressing ◀ or ▶.

4 Confirm that **CLEAR** is set to **OFF**.

5 Select **SYSTEM** by pressing ▲ or ▼ and then select the broadcasting system by pressing ◀ or ▶.

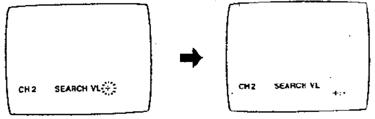
- BGDK: For receiving PAL B.G.H.D or SECAM B.G.D.K.K1 system broadcasts.
- I: For receiving PAL I system broadcasts.
- M: For receiving NTSC system broadcasts.

6 Select **MESECAM** by pressing ▲ or ▼ and then select **AUTO** by pressing ◀ or ▶.

- The VTR automatically distinguishes between PAL and SECAM broadcasts.
- If the picture lacks colour when **AUTO** is select, select **ON**.

7 Select **BAND** by pressing ▲ or ▼ and then select TV band **VL**, **VH** or **UHF** by pressing ◀ or ▶.

8 Select **SEARCH** by pressing ▲ or ▼ and then press ▶.


CH 2 SEARCH VL
CH 2 SEARCH VL

- If the desired TV station is not be tuned, press ▶ again.
- Press **MENU** and repeat steps **3–8** for each programme position you want to tune to a station.

9 Press **MENU** three times.

Fine Tuning Procedure

1 Press **MENU**.

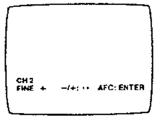
2 Select **TUNER PRESET** by pressing ▲ or ▼ and **ENTER**.

3 Select CH by pressing ▲ or ▼ and then select the programme position by pressing ◀ or ▶.

4 Select **FINE** by pressing ▲ or ▼.

5 Press ◀ or ▶ to obtain the best tuning condition.

- To return the tuning to its former state, press **ENTER**.


CH 2
FINE + −/+:◀▶ AFC: ENTER

6 Press **MENU**.

Blanking of Unoccupied Programme positions

1 Press **MENU**.

2 Select **TUNER PRESET** by pressing ▲ or ▼ and **ENTER**.

3 Select CH by pressing ▲ or ▼ and then select the programme position by pressing ◀ or ▶.

4 Select **CLEAR** by pressing ▲ or ▼.

5 Select **ON** by pressing ◀ or ▶.

- Repeat steps 3–5 for another unoccupied programme positions to skip during the selection of the programme positions.
- To cancel the blanking of a programme position, select that programme position and then select **CLEAR OFF**.

6 Press **MENU** twice.

Channel Plan

SYSTEM		VHF		UHF
		VL	VH	
1	CCIR STD (B.G.H)	2–4 S1–S3*	5–12 M1–U10*	21–69
	CHINA (D)	1–5	6–12	13–57
	EAST EU (D.K.K1)	1–5	6–12	21–69
2	HONG KONG, UK (I)	——		21–69
	SOUTH AFRICA (I)	——	4–13	21–68
3	USA (NTSC)	2–6 A-5–A-3*	7–13 A-2–W*	14–79
	JAPAN (NTSC)	1–3	4–12 C13–C35*	13–62

*CATV: VHF 44–300 MHz

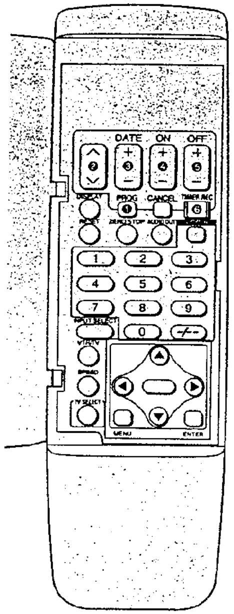
Preparations for G-Code Programming

Identification numbers must be set for G-Code programming. Simply proceed with the G-Code programming operation described on page 26, and the identification numbers of the TV stations concerned will be set automatically. This means that G-Code programming is possible even without performing the operation described on this page. However, you can follow the setting procedure described below if you wish to set the identification numbers of all the TV stations prior to actual programming.

"Identification numbers" refer to the numbers used for identifying the TV stations.
The programme positions on the VTR receiving the TV stations are set in these identification numbers.
Have a newspaper or magazine on hand which lists today's local TV station programmes and G-Code numbers.

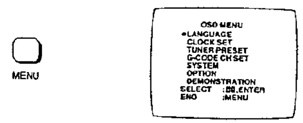
Preparations

- Set the clock of the VTR. See page 13.
- Store TV broadcasts into your VTR. See pages 14 and 15.
- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.

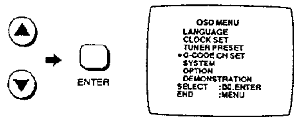

DATE
ON
OFF
PROG
CANCEL
TIMER REC
1
2
3
4
5
6
7
8
9
0
-/--
MENU
ENTER

Operations **On Screen Display**

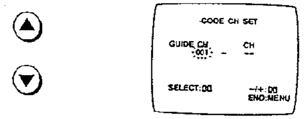
1 Press **MENU**.


MENU
OSD MENU
•LANGUAGE
CLOCK SET
TUNER PRESET
G-CODE CH SET
SYSTEM
OPTION
DEMONSTRATION
SELECT :▢▢.ENTER
END :MENU

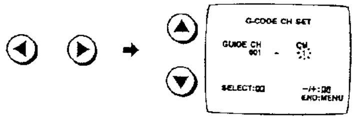
2 Select **G-CODE CH SET**.


ENTER
OSD MENU
LANGUAGE
CLOCK SET
TUNER PRESET
•G-CODE CH SET
SYSTEM
OPTION
DEMONSTRATION
SELECT :▢▢.ENTER
END :MENU

3 Select the identification number (001–255).


G-CODE CH SET
GUIDE CH
001
CH
--
SELECT:▢▢
-/+:▢▢
END:MENU

4 Press ◀ or ▶ and then select the programme position (1–99, AV).


G-CODE CH SET
GUIDE CH
001
CH
1
SELECT:▢▢
-/+:▢▢
END:MENU

- To set the other TV stations, press ◀ or ▶ and then repeat steps **3** and **4**.

5 Press **MENU** twice.

Note:
To receive satellite stations, the satellite receiver must be connected to the VTR and programme position must be set depending on the type of the connection mode.
AV: When the satellite receiver is connected to the Audio/Video input sockets.
- When the satellite receiver is connected by means of the RF coaxial cable, set to a free programme position between 1 and 99.

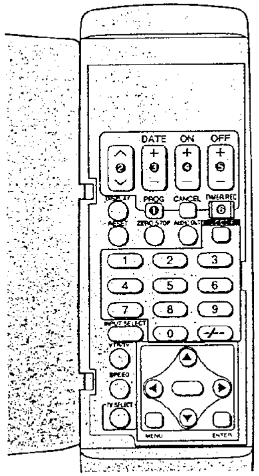
For Example:

TV Station	Programme Position on VTR	Identification Number
TVB JADE	1	1
ATV HOME	2	2
TVB PEARL	3	3
ATV WORLD	4	4
STAR PRIME SPORTS	5	5
STAR MTV	6	6
STAR CHINESE	7	7
STAR PLUS	9	9
CABLE PREVIEW CHANNEL	21	21
CABLE MOVIE CHANNEL	22	22
CABLE ENTERTAINMENT CHANNEL	23	23
CABLE NEWS CHANNEL	24	24
CABLE CHILDREN CHANNEL	25	25
CABLE SPORTS CHANNEL (ESPN)	26	26
CABLE YOUTH MUSIC CHANNEL (YMC)	27	27
CABLE ENGLISH NEWS CHANNEL	28	28
CABLE LEARNING CHANNEL	29	29
CABLE WOMEN CHANNEL	30	30
CABLE INTERNATIONAL CHANNEL	31	31
CABLE BBC CHANNEL	32	32
CABLE HOLLYWOOD CINEMA	33	33
CABLE LOCAL CINEMA	34	34
CABLE ADULT CINEMA	35	35
CABLE FAMILY CINEMA	36	36
TDM CHINESE CH	41	41
TDM PORTUGUESE CH	42	42

Settings Using On Screen Display

Preparations

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.

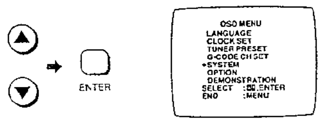

DATE
ON
OFF
PROG
CANCEL
1
2
3
4
5
6
7
8
9
0
-/--
MENU
ENTER

To set the Colour TV System

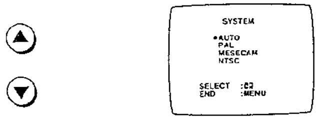
1 Press MENU.

2 Select SYSTEM.

On Screen Display


ENTER
OSD MENU
LANGUAGE
CLOCK SET
TUNER PRESET
G-CODE CH SET
•SYSTEM
OPTION
DEMONSTRATION
SELECT :▲▼,ENTER
END :MENU

3 Select AUTO.


SYSTEM
•AUTO
PAL
MESECAM
NTSC
SELECT :▲▼
END :MENU

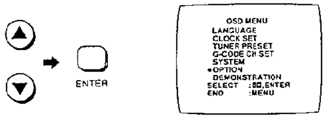
- The VTR automatically distinguishes between PAL, SECAM/MESECAM and NTSC signals. If the picture lacks colour during AV external recording or playback, set to PAL, MESECAM or NTSC.

4 Press MENU twice.

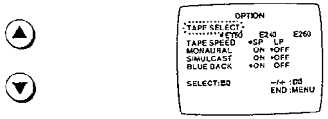
To select the corresponding Cassette Tape Length for displaying the approximate remaining tape time

1 Press MENU.

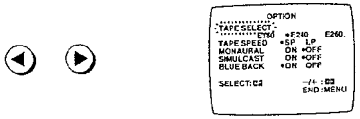
2 Select OPTION.


ENTER
OSD MENU
LANGUAGE
CLOCK SET
TUNER PRESET
G-CODE CH SET
SYSTEM
•OPTION
DEMONSTRATION
SELECT :▲▼,ENTER
END :MENU

3 Select TAPE SELECT.


OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED •SP LP
MONAURAL ON •OFF
SIMULCAST ON •OFF
BLUE BACK •ON OFF
SELECT:▲▼
-/+ :◀▶
END :MENU

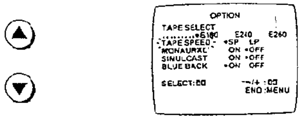
4 Select the corresponding cassette tape length.


OPTION
TAPE SELECT
E180 •E240 E260
TAPE SPEED •SP LP
MONAURAL ON •OFF
SIMULCAST ON •OFF
BLUE BACK •ON OFF
SELECT:▲▼
-/+ :◀▶
END :MENU

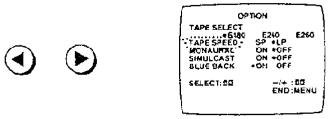
E180: For E30, -60, -90, -120, -150 and -180 tapes
E240: For E240 tape
E260: For E260 and -300 tapes

To select the Desired Tape Speed for the manual recording

1 Select TAPE SPEED.

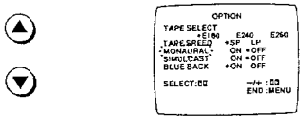

OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED •SP LP
MONAURAL ON •OFF
SIMULCAST ON •OFF
BLUE BACK •ON OFF
SELECT:▲▼
-/+ :◀▶
END :MENU

2 Select the desired tape speed.

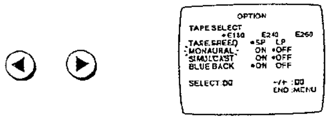

OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED SP •LP
MONAURAL ON •OFF
SIMULCAST ON •OFF
BLUE BACK •ON OFF
SELECT:▲▼
-/+ :◀▶
END :MENU

To select the Sound Mode

1 Select MONAURAL.


OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED •SP LP
MONAURAL ON •OFF
SIMULCAST ON •OFF
BLUE BACK •ON OFF
SELECT:▲▼
-/+ :◀▶
END :MENU

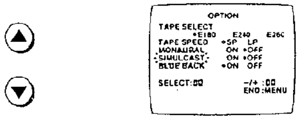
2 Select OFF.


OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED •SP LP
MONAURAL ON •OFF
SIMULCAST ON •OFF
BLUE BACK •ON OFF
SELECT:▲▼
-/+ :◀▶
END :MENU

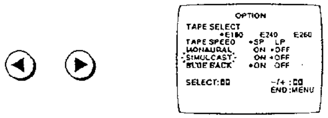
- Select ON to record the normal sound during a Stereo, Bilingual or NICAM broadcast or if the stereo sound is distorted due to inferior reception conditions.

To select the Simulcast Sound

1 Select SIMULCAST.


OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED •SP LP
MONAURAL ON •OFF
SIMULCAST ON •OFF
BLUE BACK •ON OFF
SELECT:▲▼
-/+ :◀▶
END :MENU

2 Select OFF.

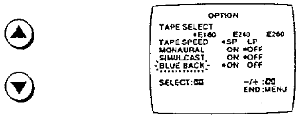

OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED •SP LP
MONAURAL ON •OFF
SIMULCAST ON •OFF
BLUE BACK •ON OFF
SELECT:▲▼
-/+ :◀▶
END :MENU

- Select ON to record the sound portion of the TV broadcast signal on the normal sound track and the stereo signal received from the external audio source on the Hi-Fi sound tracks.

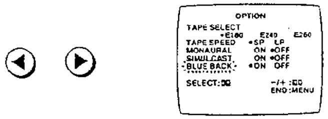
For Blue Background Function

When **BLUE BACK** is **ON**, the screen will always have a blue background when no signal is received or the received signal is very weak.

1 Select BLUE BACK.


OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED •SP LP
MONAURAL ON •OFF
SIMULCAST ON •OFF
BLUE BACK •ON OFF
SELECT:▲▼
-/+ :◀▶
END :MENU

2 Select ON.

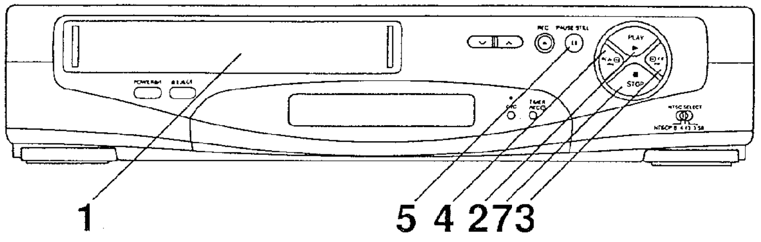

OPTION
TAPE SELECT
•E180 E240 E260
TAPE SPEED •SP LP
MONAURAL ON •OFF
SIMULCAST ON •OFF
BLUE BACK •ON OFF
SELECT:▲▼
-/+ :◀▶
END :MENU

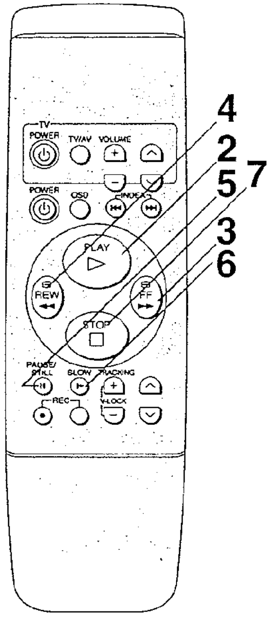
- When **BLUE BACK** is **OFF**, the blue background function does not work.
- It is not possible to record the blue picture of the blue background function.

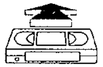
After All Settings are selected

Press **MENU** twice to make On Screen Display disappear.

Playback




4
2
5
7
3
6
TV
POWER
TV/AV
VOLUME
OSD
INDEX
PLAY
REW
FF
STOP
PAUSE/STILL
SLOW
TRACKING
REC
V-LOCK

	Operations	Display Symbols	
1		▭	Insert a recorded cassette tape.
2	PLAY ▷	▷	Start viewing the picture.
3	FF ►►	▷▷	Search forward by tapping **FF**. • To change back to normal playback, press **PLAY**.
4	REW ◄◄	◁◁	Search backward by tapping **REW**. • To change back to normal playback, press **PLAY**.
5	PAUSE/ STILL II	II	View a still picture. • To continue the normal playback, press **PLAY** or **PAUSE/STILL**.
6	SLOW I▸	II▷	View the slow motion picture. • To continue the normal playback, press **PLAY**.
7	STOP □		Stop viewing the picture.

Other Playback Functions

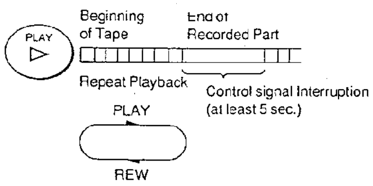
To obtain High Speed Picture During Fast Forward or Rewind

Keep **FF** pressed during fast forward.
Keep **REW** pressed during rewind.

REW ◄◄ FF ►►

To playback the Recorded Part Repeatedly

Keep **PLAY** pressed for more than 5 seconds.


PLAY
Beginning of Tape
End of Recorded Part
Repeat Playback
Control signal Interruption (at least 5 sec.)
PLAY
REW

• Press **STOP** to release from Repeat Playback mode.

To return to a Specified Scene

1 Press **RESET** to set the counter to 0:00.00.

RESET

2 After playback, press **ZERO STOP** in the stop mode.
• The tape will be rewound or fast forwarded to 0:00.00 approximately.

ZERO STOP

To find the Beginning of Each Recording

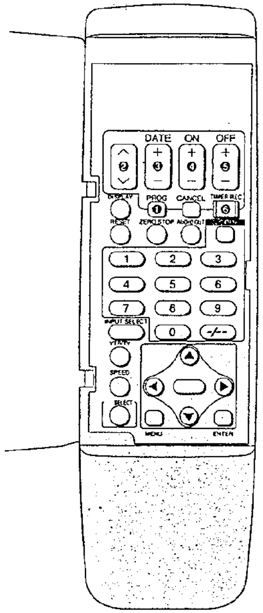
For example:
Searching for the 2nd recorded segment in the forward direction.

Press **INDEX ►►I** twice.

INDEX I◄◄ ►►I 02

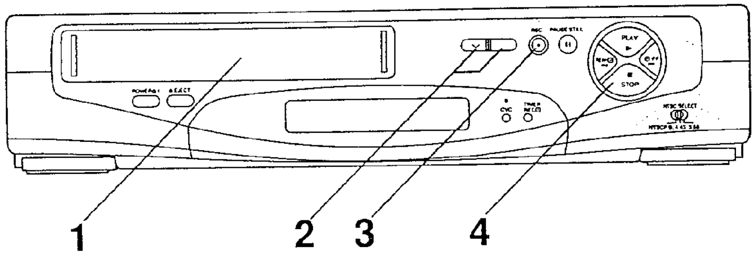
- After finding the specific recorded segment, playback starts automatically.
- For the reverse direction, press **INDEX I◄◄**.
- Up to 20 index signals can be searched for in both directions.
- When the opposite **INDEX** button is pressed, the number shall be decreased till 1.
- The figure on the display is decremented by 1 each time an index signal is located.

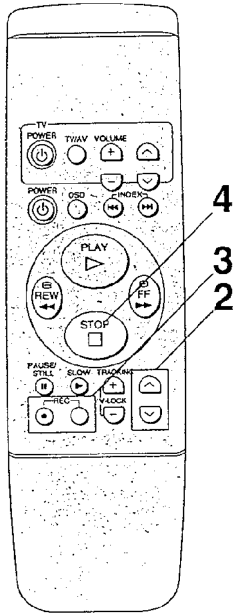
Recording Index Signals
Index signals are recorded in following cases.
- When a recording is started by pressing **REC**.
- When **REC** is pressed during recording.
- When timer recording is activated.

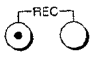
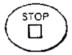

DATE
ON
OFF
PROG
CANCEL
TIMER REC
RESET
ZERO STOP
INPUT SELECT
SPEED
SELECT
MENU
ENTER

Notes:
- Audio reproduction of linear (conventionally recorded) tapes will be monaural when played back on the FM Hi-Fi video recorders.
- Cue, review or slow playback will be automatically released after 10 minutes, and still playback after 5 minutes.
- The INDEX search function can only work correctly, if the index signals are spaced at least 3 minutes apart in the SP mode and 5 minutes apart in the LP mode.
- In LP mode only:
  1. During any playback mode other than normal playback, the picture may have some noise bars, the colour may be unstable, or a black and white picture may appear.
  2. When playing back a tape which was recorded on another VTR, it may be necessary to adjust the Tracking Control. In some cases the picture quality may still be inferior. This is due to limitation of format.
- Depending on the type of TV, unusual sounds may be heard when the signals are not received properly. This is not indicative of malfunctioning. It is recommended that connection be made using an audio/video cable.

Manual Recording




TV
POWER
TV/AV
VOLUME
POWER
OSD
INDEX
PLAY
REW
FF
STOP
PAUSE/STILL
SLOW
TRACKING
REC
V-LOCK
4
3
2

Operations	Display Symbols	
1		Insert a cassette tape. • If it has already been inserted, press **POWER** to turn the VTR on.
2		Select TV station.
3 		Start recording.
4 		Stop recording.

To select the Desired Tape Speed

Press **SPEED** before recording.

To interrupt Recording

Press **PAUSE/STILL** during recording.
Press again to continue recording.

PAUSE/
STILL
REC

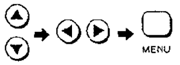
To record One TV Programme while Viewing Another Programme

1 Refer to the manual recording operations steps 1 to 3.

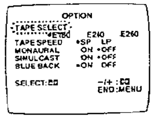
2 Select the TV programme on your TV set you wish to view at the present time.

To display the Approximate Remaining Tape Time

1 Select **TAPE SELECT** on **OPTION** on screen display and select the corresponding cassette tape length. See page 18.



On Screen Display



```
OPTION
TAPE SELECT
       •E180    E240    E260
TAPE SPEED    •SP   LP
MONAURAL       ON  •OFF
SIMULCAST      ON  •OFF
BLUE BACK     •ON   OFF

SELECT:             -/+ :
                    END:MENU
```

E180: For E30, -60, -90, -120, -150 and -180 tapes
E240: For E240 tape
E260: For E260 and -300 tapes

2 Press **DISPLAY**.

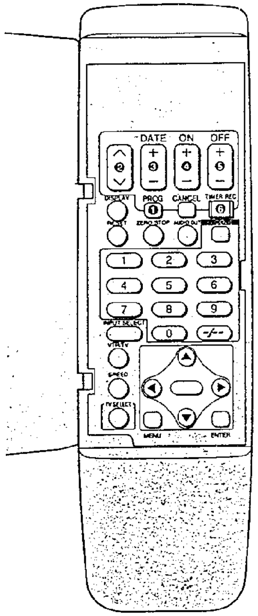
DISPLAY
REMAIN
1:05

→Clock→Counter→Remaining Tape Time

- The remaining tape time may not be displayed correctly depending on the tape used.

Notes:

- When a video cassette with a broken off tab is inserted, the "" indication will flash to indicate that recording is not possible.
- The recording pause mode will be automatically released after 5 minutes. Revert back to the stop mode.


DATE
ON
OFF
DISPLAY
PROG
CANCEL
TIMER REC
1
2
3
4
5
6
7
8
9
0
-/--
MENU
ENTER

Timer Recording

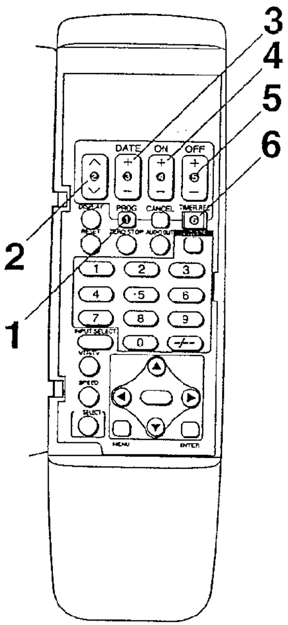
Up to 8 timer programmes can be recorded up to one month in advance by setting the timer, including weekly and daily programmes.

Preparations

- Insert a cassette tape with an intact erasure prevention tab.
- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.

For Example:

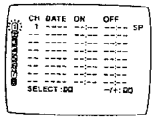
Timer programme number;	1
Programme position (channel);	2
Date;	27th, October
Starting time;	20:02
Ending time;	21:30
(Present date; 16th, October)	



Operations — On Screen Display

1 Select **Timer Programme number** "1".

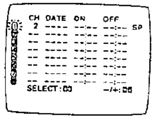
PROG ①



```
CH DATE  ON    OFF
 1 ----  --:-- --:-- SP
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT:▣▣      -/+:▣▣
```

2 Set **Programme position** (channel) "2".

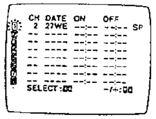
∧ ② ∨



```
CH DATE  ON    OFF
 2 ----  --:-- --:-- SP
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT:▣▣      -/+:▣▣
```

3 Set **Date** "27".

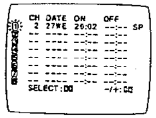
DATE + ③ –



```
CH DATE  ON    OFF
 2 27WE  --:-- --:-- SP
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT:▣▣      -/+:▣▣
```

4 Set **Starting time** "20:02".

ON + ④ –

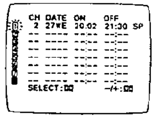


```
CH DATE  ON    OFF
 2 27WE  20:02 --:-- SP
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT:▣▣      -/+:▣▣
```

- When it is kept pressed, the indication changes in 30-minute steps.

5 Set **Ending time** "21:30".

OFF + ⑤ –



```
CH DATE  ON    OFF
 2 27WE  20:02 21:30 SP
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT:▣▣      -/+:▣▣
```

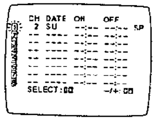
6 To activate timer recording, press **TIMER REC.**

TIMER REC ⑥

Weekly Timer Recording

In step 3, select the desired day by pressing **DATE –**.
For example, SU (Sunday)

DATE + ③ –



```
CH DATE  ON    OFF
 2 SU    --:-- --:-- SP
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT:▣▣      -/+:▣▣
```

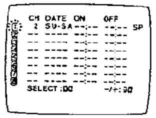
Daily Timer Recording

For this timer function, several groups of days can be selected.

Ⓐ Daily recording from Monday to Friday
Ⓑ Daily recording from Monday to Saturday
Ⓒ Daily recording from Sunday to Saturday

In step 3, select the desired days by pressing **DATE –**.
For example, Ⓒ

DATE + ③ –

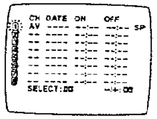


```
CH DATE  ON    OFF
 2 SU-SA --:-- --:-- SP
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT:▣▣      -/+:▣▣
```

Timer Recording from External Signal Source

If Timer Recording is performed by a unit connected to the Audio/Video input sockets, select the AV indicator in step 2 for the programme position.

∧ ② ∨

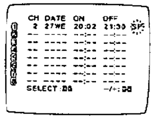


```
CH DATE  ON    OFF
AV ----  --:-- --:-- SP
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT:▣▣      -/+:▣▣
```

Selecting the Desired Tape Speed

Press ◀ and then select the desired tape speed by pressing ▲ or ▼ in any of steps 2–5.

◀ ➡ ▲ ▼



```
CH DATE  ON    OFF
 2 27WE  20:02 21:30 SP
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT:▣▣      -/+:▣▣
```

Setting other Programmes in succession

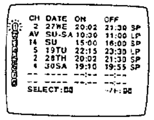
Repeat steps 1–5.

Checking a Timer Programme

- The VTR must be turned on, or the timer recording indicator "⊡" is lit.
- Confirm that the TV is on and the VTR viewing channel is selected.

1 Press **PROG**.

PROG ①



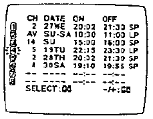
```
CH DATE  ON    OFF
 2 27WE  20:02 21:30 SP
AV SU-SA 10:30 11:00 LP
14 SU    15:00 16:00 SP
 5 19TU  22:15 23:30 LP
 2 28TH  20:02 21:30 SP
 4 30SA  19:10 19:55 SP
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT:▣▣      -/+:▣▣
```

Cancelling a Timer Programme

- The VTR must be turned on, or the timer recording indicator "⊡" is lit.
- Confirm that the TV is on and the VTR viewing channel is selected.

1 Press **PROG** repeatedly until the desired timer-programme number is flashed on and off.

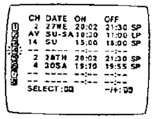
PROG ①



```
CH DATE  ON    OFF
 2 27WE  20:02 21:30 SP
AV SU-SA 10:30 11:00 LP
14 SU    15:00 16:00 SP
 5 19TU  22:15 23:30 LP
 2 28TH  20:02 21:30 SP
 4 30SA  19:10 19:55 SP
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT:▣▣      -/+:▣▣
```

2 Press **CANCEL**.

CANCEL



```
CH DATE  ON    OFF
 2 27WE  20:02 21:30 SP
AV SU-SA 10:30 11:00 LP
14 SU    15:00 16:00 SP
-- ----  --:-- --:--
 2 28TH  20:02 21:30 SP
 4 30SA  19:10 19:55 SP
-- ----  --:-- --:--
-- ----  --:-- --:--
SELECT:▣▣      -/+:▣▣
```

Note:
If a timer recording is not performed to the end (due to insufficient tape or cancellation by the user), the programmed timer recording data will be cancelled from the memory by 4 a.m. two days later.
However, if the Timer Record Function is activated at that time, the programmed timer recording data will be cancelled at 4 a.m. the next day.

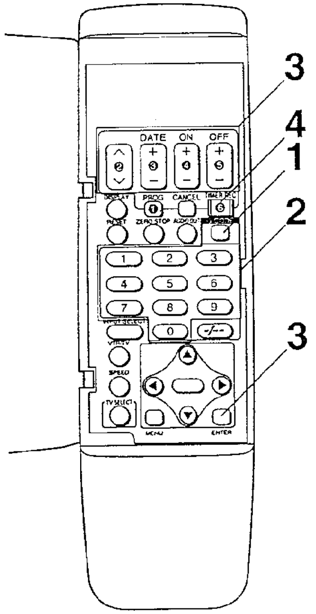
Editing

G-Code Programming

Programming is now easier than ever: simply enter the G-Code number provided in the programme schedule column carried by newspapers and magazines.
G-Code numbers are numbers which are assigned to each programme listed in the TV programme schedule carried in newspapers and TV guides. When these numbers are entered, the numbers are converted into the actual programming.

Preparations

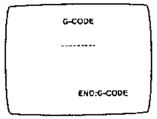
- Insert a cassette tape with an intact erasure prevention tab.
- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.



Operations — On Screen Display

1 Press **G-CODE**.

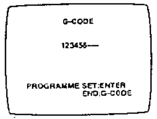
G-CODE



G-CODE

END:G-CODE

2 Enter a G-Code number.
Example: 123456

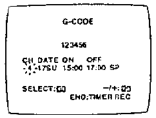


G-CODE
123456—
PROGRAMME SET:ENTER
END:G-CODE

- If you have entered the wrong number, press CANCEL and then enter the proper number.

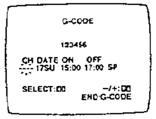
3 Press **ENTER**.

ENTER



G-CODE
123456
CH DATE ON OFF
4 17SU 15:00 17:00 SP
SELECT:⓪ −/+:⓪
END:TIMER REC

- Confirm that the number corresponds to the right programme. If the display looks like this:



G-CODE
123456
CH DATE ON OFF
---- 17SU 15:00 17:00 SP
SELECT:⓪ −/+:⓪
END:G-CODE

select the programme position of your VTR which receives the TV station you entered at step 2 using button ❷ and then press **ENTER**.

- To make any corrections, use buttons ❸–❺ as the same way on page 24.

4 Press **TIMER REC**.

TIMER REC ❻

Notes:

- To select the desired tape speed, press **SPEED** before programming.
- When the G-Code number is used for programming, the recording time may be slightly longer than the actual programme time.
- Repeat steps 2 and 3 if "PROGRAMME IS INCOMPLETE." appears.
- When programming two or more programmes, repeat steps **1–3** before pressing **TIMER REC**.
- The procedures for checking and cancelling a timer programme are the same as on page 25.

Assembly Editing

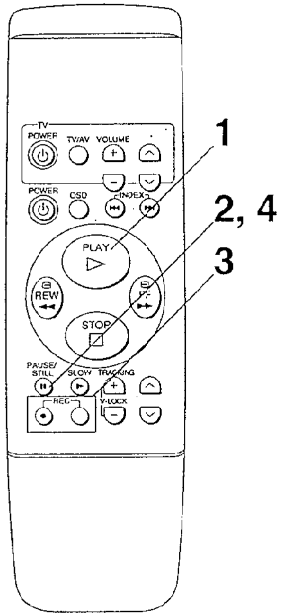
This function can be used to make up an edited tape from other recordings or video sources.

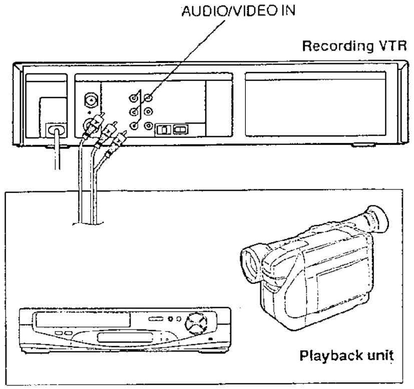
A new scene can be added to the end of a previous one.

Preparations

- Connect a movie camera or another VTR to this VTR as shown.
- Insert a recorded cassette tape with an intact erasure prevention tab.
- Select the video source required by pressing **INPUT SELECT** to set AV.
- Set **NTSC SELECT**.

NTSC P.B.: When recording in the PAL system.
4.43: When recording NTSC 4.43 signals from External Signal Source.
3.58: When recording NTSC 3.58 signals from External Signal Source.





Operations

1 Search for the end of the previous recording.

PLAY

2 Press **PAUSE/STILL**.

PAUSE/STILL

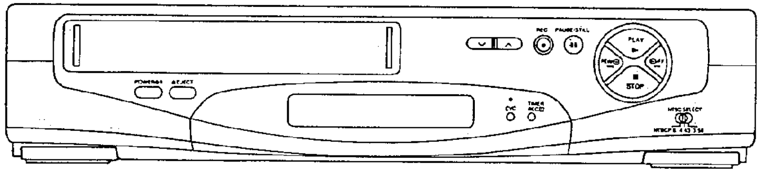
3 Press **REC** to switch the VTR from the pause mode to the recording standby mode.

REC

4 Start the new recording by pressing **PAUSE/STILL** again.

PAUSE/STILL

Other Functions



NTSC Playback

Tapes recorded in the NTSC system can be played back with this VTR via a PAL system TV set.

- Set **NTSC SELECT** according to the colour TV system of the TV set.

NTSC P.B.:	Via a PAL system TV set.
4.43:	Via a NTSC 4.43 system TV set.
3.58:	Via a NTSC 3.58 system TV set.

A note about NTSC playback on PAL TV

On some TVs, the playback picture may roll up or down: adjust this using the V-HOLD control on the TV. TVs not equipped with a V-HOLD control cannot correct this condition. The playback picture will shrink vertically, and black bars will appear both on the top and bottom of the screen. This is not an indication of a malfunction.

- During Cue, Review, Still or Slow playback, the picture may not be in colour.
- This function is designed only to allow the playback of tapes recorded by NTSC signals on a PAL system TV. The NTSC signal is not completely converted to a PAL signal. For this reason, images played back by this function cannot be recorded on another VTR.

Other Automatic Functions

Automatic playback

When a cassette without an erasure prevention tab is inserted, the VTR starts playback automatically.

VTR-off playback

When the VTR is off, an inserted cassette can be played back by pressing **PLAY**.

Automatic rewinding

When the tape reaches its end during recording (except for timer recording) or playback, it will automatically be rewound to the beginning.

Automatic switching off and ejection

When the VTR is switched off, an inserted cassette can be ejected simply by pressing **EJECT**. The VTR will eject the cassette and automatically turn itself off again.

Hi-Fi Audio System

NICAM is a 2 Channel sound broadcast system to provide either a high quality stereo sound track or 2 independent MONO sound tracks, M1 and M2.

NICAM programmes are always accompanied by standard sound broadcasts and you can select the desired sound with **AUDIO OUT** during playback.

- The NICAM digital stereo sound can only be recorded on the Hi-Fi audio track.
- When a stereo, bilingual or NICAM programme is being received, the indicators are lit to inform you of the type of broadcast. (See page 8.)
- To record the regular sound (ordinary normal sound) on the FM audio tracks when a Stereo, Bilingual or NICAM programme is received, select **MONAURAL ON**. See page 19.

Important Note for the NICAM System

When this VTR tuner is switched on, it will automatically switch to a NICAM broadcast, if NICAM is being transmitted. During test transmissions, it is possible that the sound received doesn't correspond to the picture being viewed. In order to receive a synchronized sound and picture, select monaural sound with **AUDIO OUT** or **MONAURAL** setting. This will only apply until NICAM transmissions are fully operational.

At this time the NICAM signal is transmitted on stereo channels only, since the M1 and M2 formats are not yet available. Even if the sound track is in MONO, the stereo indicator will appear.

Recording of Simulcast Sound

Set **SIMULCAST** to ON. (See page 19.)

Connect the Hi-Fi audio source to the audio input socket on the VTR.

While this switch is in the "ON" position, the sound portion of the TV broadcast signal will be recorded only on the "normal" sound track. And the stereo sound signal received from the external audio source will be recorded on the Hi-Fi sound tracks.

SECTION 2
ADJUSTMENT PROCEDURES

2-1. DISASSEMBLY METHOD

2-1-1. DISASSEMBLY FLOW CHART

This flow chart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing.
When reassembling, perform the steps in the reverse order.

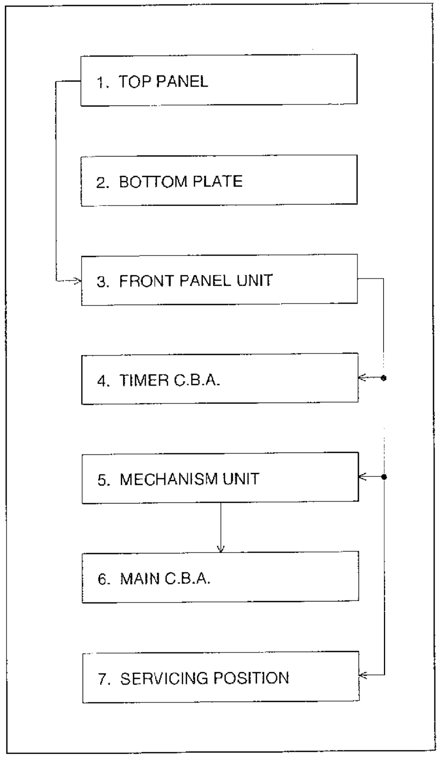

1. TOP PANEL
2. BOTTOM PLATE
3. FRONT PANEL UNIT
4. TIMER C.B.A.
5. MECHANISM UNIT
6. MAIN C.B.A.
7. SERVICING POSITION

Fig. D1

2-1-2. DETAIL OF DISASSEMBLY METHOD

1. REMOVAL OF THE TOP PANEL

Remove...... 4 Screws (A)

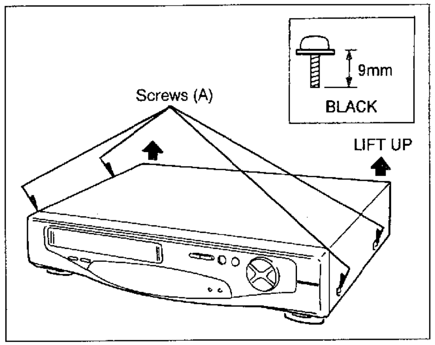

Screws (A)
9mm
BLACK
LIFT UP

Fig. D2

2. REMOVAL OF THE BOTTOM PLATE

Remove...... Screw (B)
Remove...... 2 Screws (C)
Unlock .... 4 tabs (D)

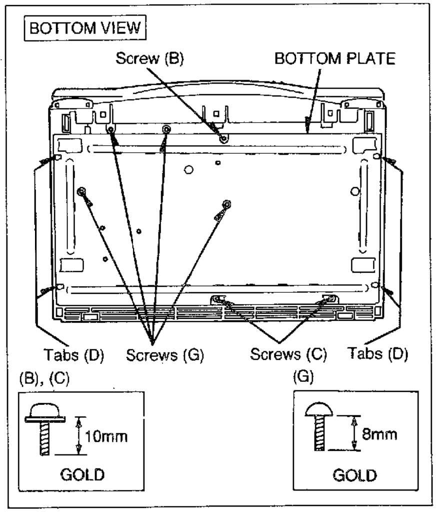

BOTTOM VIEW
Screw (B)
BOTTOM PLATE
Tabs (D)
Screws (G)
Screws (C)
Tabs (D)
(B), (C)
10mm
GOLD
(G)
8mm
GOLD

Fig. D3

3. REMOVAL OF THE FRONT PANEL UNIT

Remove...... Screw (D)
Unlock .... 8 Tabs (E)

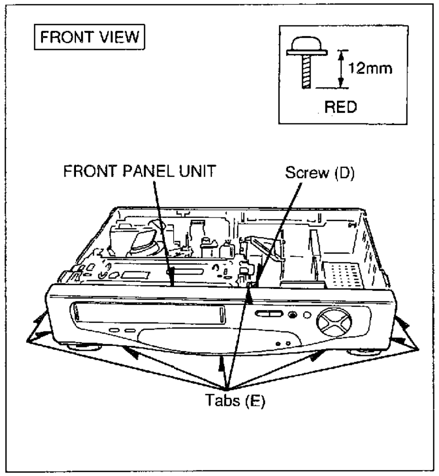

FRONT VIEW
12mm
RED
FRONT PANEL UNIT
Screw (D)
Tabs (E)

Fig. D4

4. REMOVAL OF THE TIMER C.B.A.

Unlock .... 5 Tabs (F)

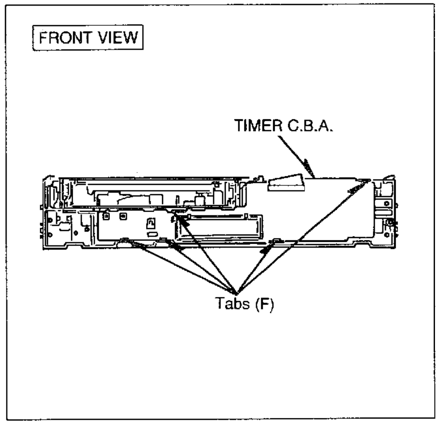

FRONT VIEW
TIMER C.B.A.
Tabs (F)

Fig. D5

5. REMOVAL OF THE MECHANISM UNIT

Remove...... 4 Screws (G) [Fig. D3]
Remove...... 3 Screws (H)
Remove...... Screw (I)
Unlock .... Tab (J) and PACK HOLDER

6. REMOVAL OF THE MAIN C.B.A.

Remove...... 2 Screws (C) [Fig. D3]
Unlock .... 7 Tabs (K)

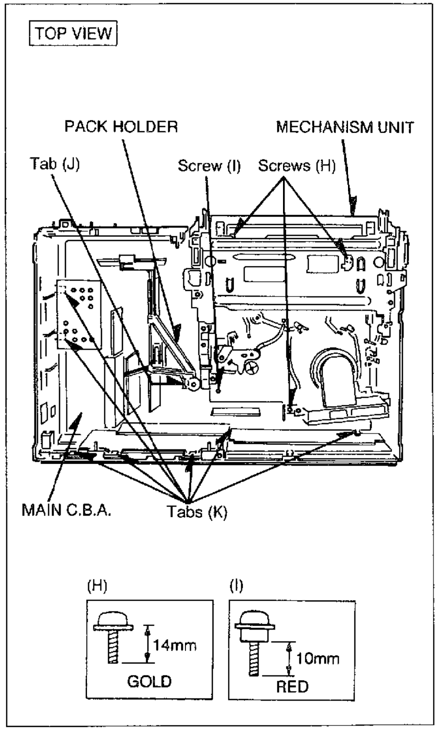
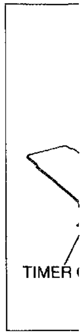

TOP VIEW
PACK HOLDER
MECHANISM UNIT
Tab (J)
Screw (I)
Screws (H)
MAIN C.B.A.
Tabs (K)
(H)
14mm
GOLD
(I)
10mm
RED

Fig. D6

7. SERVI

Remov
Remov
Remov
Unlock
Unlock



2-2. M
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The mech
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Chassis.

CAUTION

To ma
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(2) Pre
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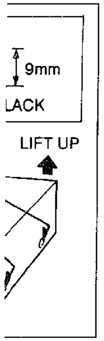
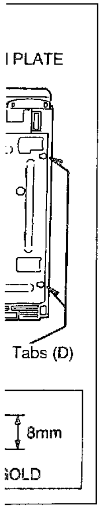

9mm
LACK
LIFT UP


I PLATE
Tabs (D)
8mm
OLD

3. REMOVAL OF THE FRONT PANEL UNIT

Remove...... Screw (D)
Unlock .... 8 Tabs (E)

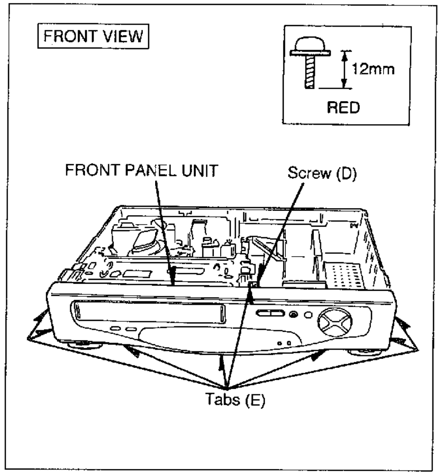

FRONT VIEW
12mm
RED
FRONT PANEL UNIT
Screw (D)
Tabs (E)

Fig. D4

4. REMOVAL OF THE TIMER C.B.A.

Unlock .... 5 Tabs (F)

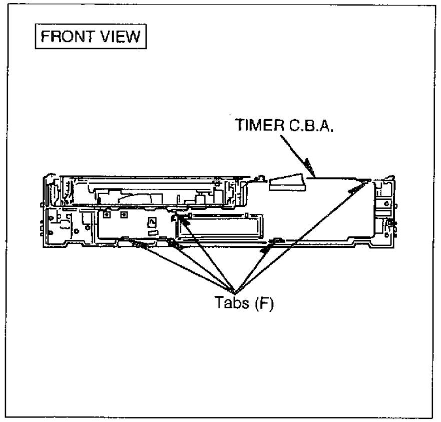

FRONT VIEW
TIMER C.B.A.
Tabs (F)

Fig. D5

5. REMOVAL OF THE MECHANISM UNIT

Remove...... 4 Screws (G) [Fig. D3]
Remove...... 3 Screws (H)
Remove...... Screw (I)
Unlock .... Tab (J) and PACK HOLDER

6. REMOVAL OF THE MAIN C.B.A.

Remove...... 2 Screws (C) [Fig. D3]
Unlock .... 7 Tabs (K)

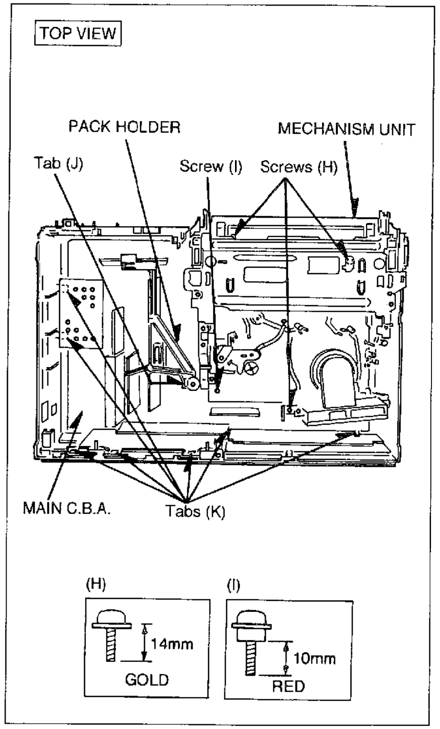

TOP VIEW
PACK HOLDER
MECHANISM UNIT
Tab (J)
Screw (I)
Screws (H)
MAIN C.B.A.
Tabs (K)
(H)
14mm
GOLD
(I)
10mm
RED

Fig. D6

7. SERVICING POSITION

Remove...... 2 Screws (C) [Fig. D3]
Remove...... 3 Screws (H)
Remove...... Screw (I)
Unlock .... Tab (J) and PACK HOLDER
Unlock .... 7 Tabs (K)

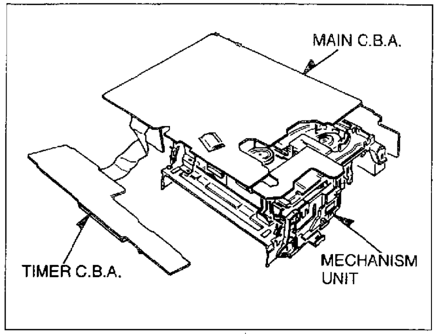

MAIN C.B.A.
TIMER C.B.A.
MECHANISM UNIT

Fig. D7

2-2 MECHANICAL ADJUSTMENT PROCEDURES

The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

CAUTIONS:

To make a Adjustment Mode for Tape Interchangeability, there are two ways to turn off the Auto Tracking.

(1) Connect a jumper wire (K2501) which has been cut as shown in Fig. M1.
After finishing the adjustment, disconnect the jumper wire.
(2) Press the "FF", "REW" and "EJECT" buttons 3 times to set the Service Mode 2.

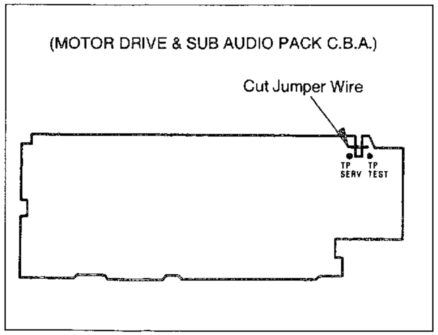

(MOTOR DRIVE & SUB AUDIO PACK C.B.A.)
Cut Jumper Wire
TP SERV
TP TEST

Fig. M1

2-3. DISASSEMBLY PROCEDURES OF MECHANISM

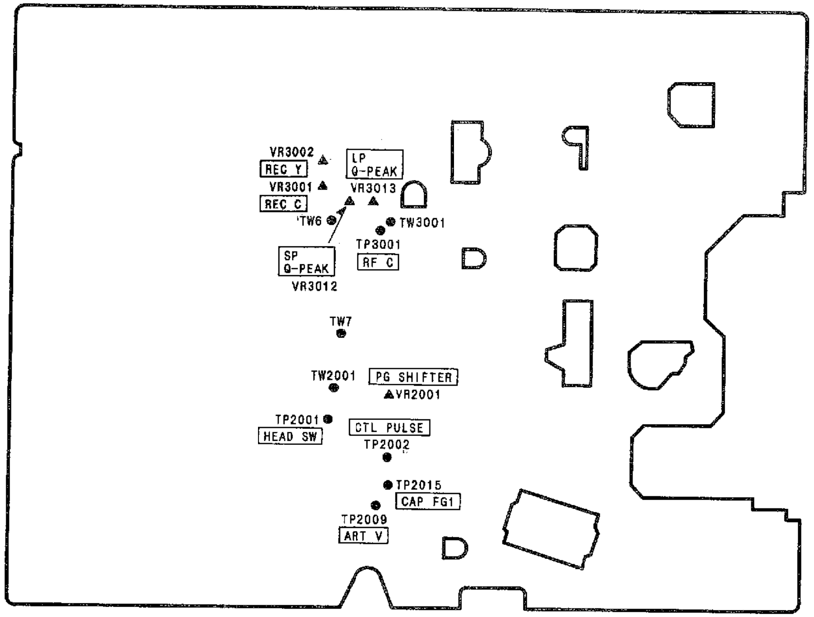
The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

2-4. ASSEMBLY PROCEDURES OF MECHANISM

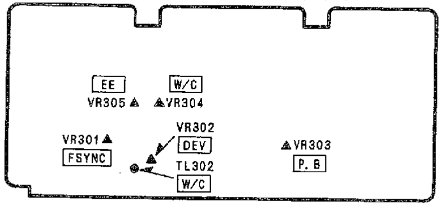
The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

LOCATION OF TEST POINTS & CONTROLS

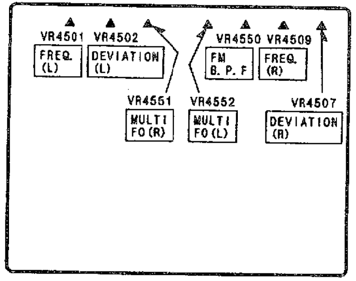
MAIN C. B. A.


VR3002
REC Y
VR3001
REC C
LP
Q-PEAK
VR3013
TW6
TW3001
TP3001
RF C
SP
Q-PEAK
VR3012
TW7
TW2001
PG SHIFTER
VR2001
TP2001
HEAD SW
CTL PULSE
TP2002
TP2015
CAP FG1
TP2009
ART V

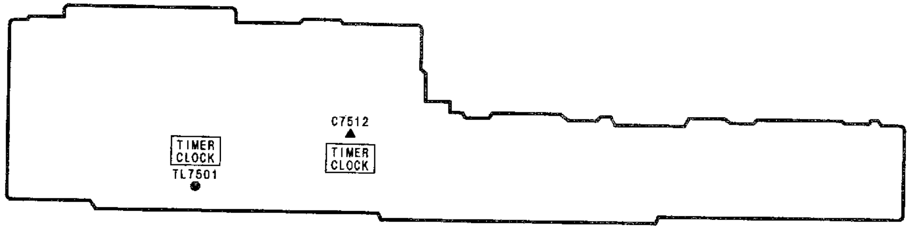
LUMINANCE/CHROMINANCE PACK C. B. A.


EE
W/C
VR305
VR304
VR301
FSYNC
VR302
DEV
TL302
W/C
VR303
P. B

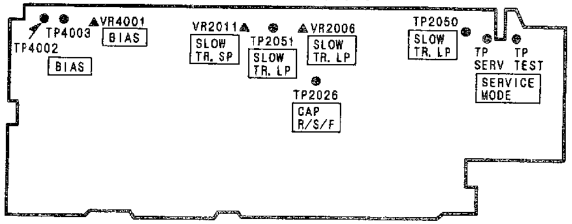
Hi-Fi AUDIO PACK C. B. A.


VR4501
VR4502
VR4550
VR4509
FREQ.
(L)
DEVIATION
(L)
FM
B. P. F
FREQ.
(R)
VR4551
VR4552
VR4507
MULTI
FO (R)
MULTI
FO (L)
DEVIATION
(R)

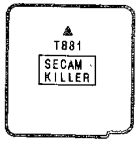
TIMER C. B. A.


TIMER
CLOCK
TL7501
C7512
TIMER
CLOCK

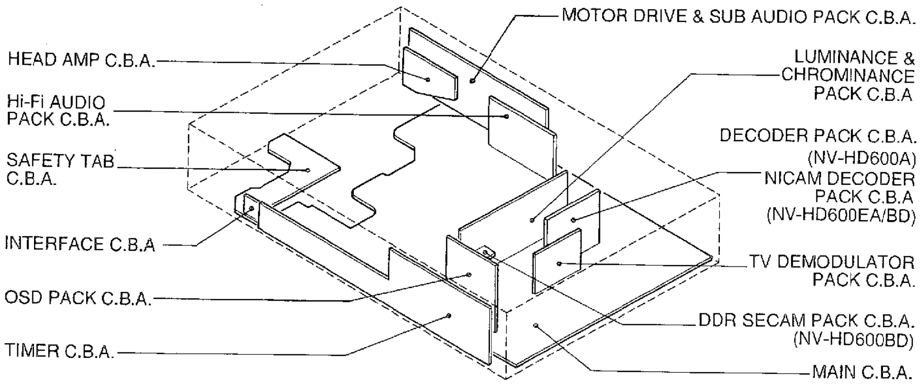
MOTOR DRIVE & SUB AUDIO PACK C. B. A.


TP4003
TP4002
VR4001
BIAS
BIAS
VR2011
SLOW
TR. SP
TP2051
SLOW
TR. LP
VR2006
SLOW
TR. LP
TP2026
CAP
R/S/F
TP2050
SLOW
TR. LP
TP
SERV
TP
TEST
SERVICE
MODE

DDR SECAM PACK C. B. A.


T881
SECAM
KILLER

CIRCUIT BOARD LAYOUT


MOTOR DRIVE & SUB AUDIO PACK C.B.A.
HEAD AMP C.B.A.
LUMINANCE & CHROMINANCE PACK C.B.A
Hi-Fi AUDIO PACK C.B.A.
DECODER PACK C.B.A. (NV-HD600A)
SAFETY TAB C.B.A.
NICAM DECODER PACK C.B.A (NV-HD600EA/BD)
INTERFACE C.B.A
TV DEMODULATOR PACK C.B.A.
OSD PACK C.B.A.
DDR SECAM PACK C.B.A. (NV-HD600BD)
TIMER C.B.A.
MAIN C.B.A.

2-5 El
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required f
Recorders.

2-5-1. TES
To perforr
required.

1. Dual-Tı
Vı
Fı
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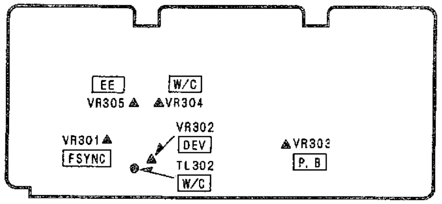
4. Digital \
5. Video S
6. Sine W
7. Video F
8. VHS Ali
9. VHS Bl
10. Monitor
11. Plastic
12. DC Pow

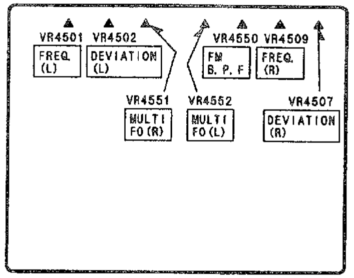
2-5-2. PREI
During adju
indication in

CVC SW....
TAPE SPEE
CHANNEL...
TEST SIGN
(NV-HD600E
NTSC SELE
(NV-HD600

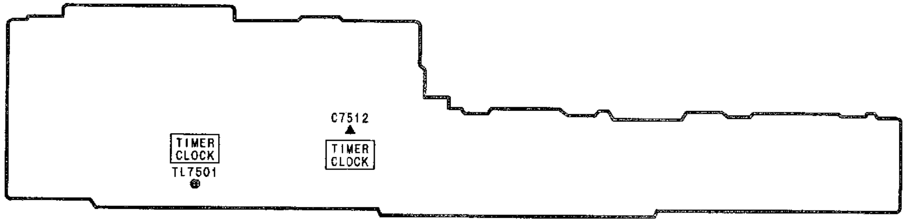
LUMINANCE/CHROMINANCE PACK C. B. A.


EE
VR305
W/C
VR304
VR302
DEV
VR301
FSYNC
TL302
W/C
VR303
P. B

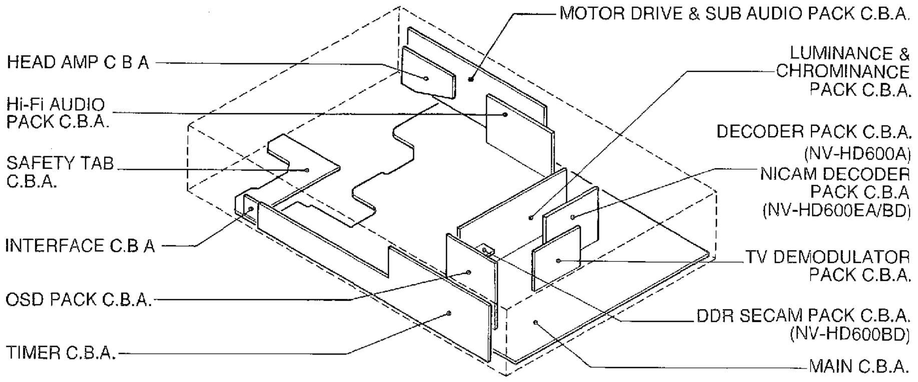
Hi-Fi AUDIO PACK C. B. A.


VR4501
VR4502
FREQ. (L)
DEVIATION (L)
VR4550
VR4509
FM B. P. F
FREQ. (R)
VR4551
MULTI FO (R)
VR4552
MULTI FO (L)
VR4507
DEVIATION (R)

TIMER C. B. A.


TIMER CLOCK
TL7501
C7512
TIMER CLOCK

CIRCUIT BOARD LAYOUT


MOTOR DRIVE & SUB AUDIO PACK C.B.A.
HEAD AMP C B A
LUMINANCE & CHROMINANCE PACK C.B.A.
Hi-Fi AUDIO PACK C.B.A.
DECODER PACK C.B.A. (NV-HD600A)
SAFETY TAB C.B.A.
NICAM DECODER PACK C.B.A (NV-HD600EA/BD)
INTERFACE C.B A
TV DEMODULATOR PACK C.B.A.
OSD PACK C.B.A.
DDR SECAM PACK C.B.A. (NV-HD600BD)
TIMER C.B.A.
MAIN C.B.A.

2-5 ELECTRICAL ADJUSTMENT PROCEDURES

This section provides complete adjustment procedures required for electric circuits of VHS Video Cassette Recorders.

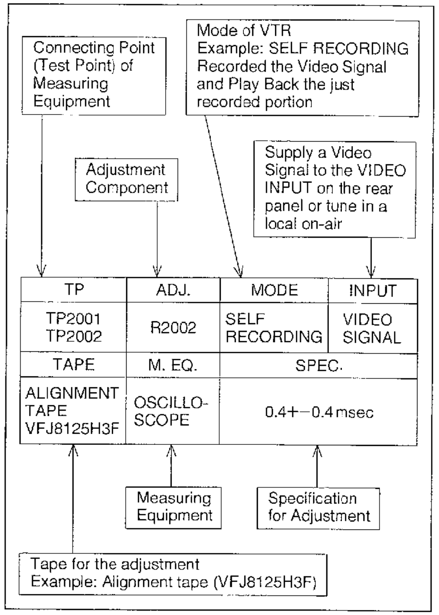
2-5-1. TEST EQUIPMENT
To perform electrical adjustments following equipment is required.

1. Dual-Trace Oscilloscope. (More than 35MHz)
   Voltage Range: 0.005-5V/div
   Frequency Range: DC-35MHz
   Probes: 10:1 OR 1:1
2. Frequency Counter.
   Frequency Range: 0-10MHz
   Probes: 1:1
3. Universal Counter.
4. Digital Volt Meter. (D.V.M.)
5. Video Sweep Generator.
6. Sine Wave Generator.
7. Video Pattern Generator.
8. VHS Alignment Tape. (VFJ8125H3F)
9. VHS Blank Tape.
10. Monitor.
11. Plastic Tip Driver.
12. DC Power Supply.

2-5-2. PREPARATION
During adjustment, set each selector as follows: when no indication in the procedure.

CVC SW ....ON
TAPE SPEED ....SP
CHANNEL..AV
TEST SIGNAL SW (REAR) ....OFF
(NV-HD600BD ONLY)
NTSC SELECT SW ....NTSC P.B.
(NV-HD600A/BD ONLY)

2-5-3. HOW TO READ ADJUSTMENT PROCEDURES


Connecting Point (Test Point) of Measuring Equipment
Mode of VTR
Example: SELF RECORDING Recorded the Video Signal and Play Back the just recorded portion
Adjustment Component
Supply a Video Signal to the VIDEO INPUT on the rear panel or tune in a local on-air
Measuring Equipment
Specification for Adjustment
Tape for the adjustment
Example: Alignment tape (VFJ8125H3F)

TP	ADJ.	MODE	INPUT
TP2001 TP2002	R2002	SELF RECORDING	VIDEO SIGNAL
TAPE	M. EQ.	SPEC.	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	0.4+−0.4msec	

Fig. E1

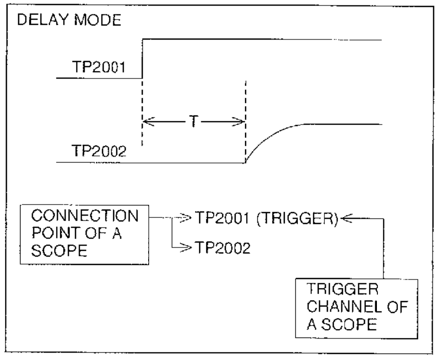

DELAY MODE
TP2001
T
TP2002
CONNECTION POINT OF A SCOPE
TP2001 (TRIGGER)
TP2002
TRIGGER CHANNEL OF A SCOPE

Fig. E2

SERVO SECTION

2-5-4. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TW2001 VIDEO OUT	VR2001	PLAYBACK	
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	7.0+−0.5 (H)	

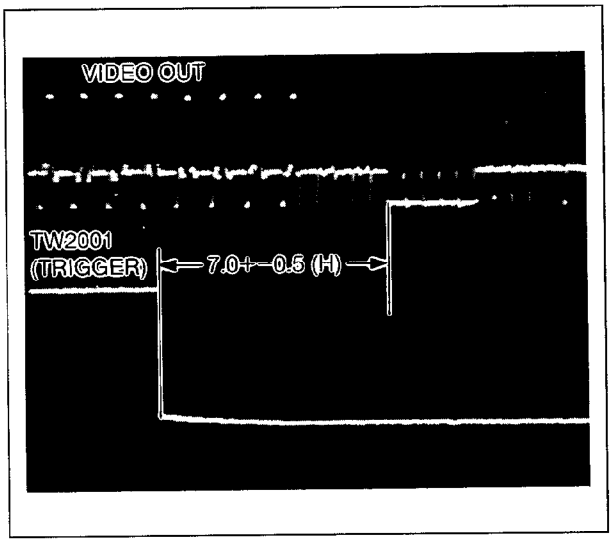


Fig. E3

2-5-5. SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2011 (SP) VR2006 (LP)	(SELF RECORD) SLOW	CCIR PATTERN
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	MONITOR TV	Noise bar on the monitor screen is minimized. (Shown in Fig. E5)	

Note: 1. Before this adjustment, connect a jumper wire which has been cut as shown in Fig. E4 or set the service mode 2 (refer to section 2-2).

2. After connecting a jumper wire or setting the service mode 2, press the TRACKING (+) and (−) buttons on the Remote Controller simultaneously to set the tracking to centre fix position.

3. After this adjustment, disconnect a jumper wire or cancel the service mode.

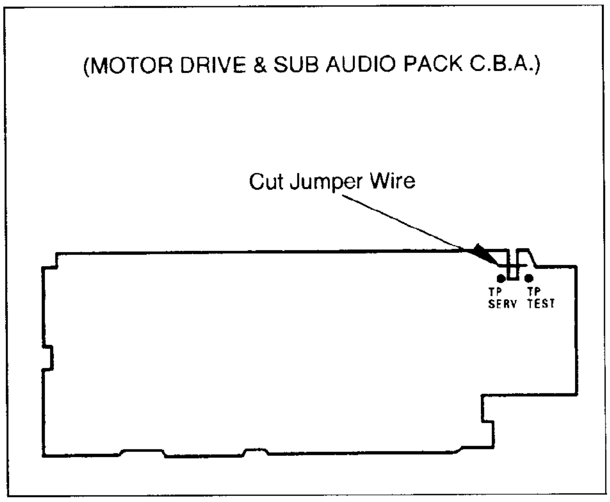


Fig. E4

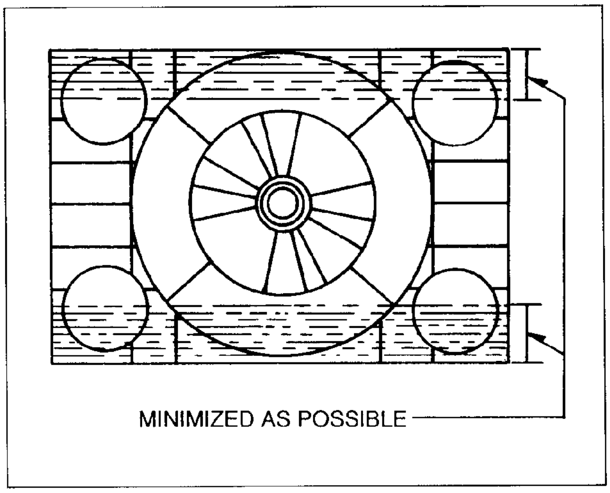


Fig. E5

LUMINANCE & CHROMINANCE SECTION

2-5-6. RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TW17	VR3002 (Y) VR3001 (C)	SP RECORDING	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	Y=120+−5 (mVp-p) C=38+−2 (mVp-p)	

Note: 1. Adjust the Luminance level until the peak level of V-SYNC is 120+−5mVp-p.
2. When adjusting the Chrominance level, Supply +5V DC to Pin 6 of PP3001 to eliminate Luminance component.

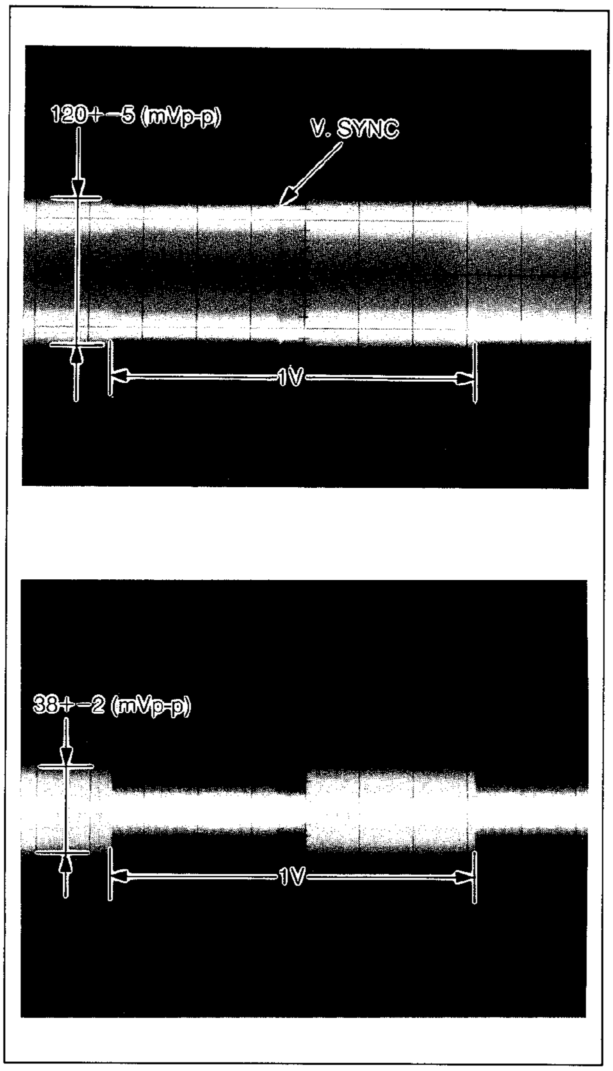
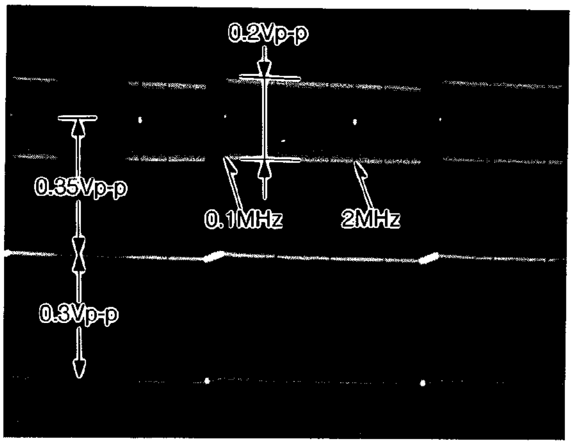


Fig. E6

2-5-7. VIDEO FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR3012 (SP) VR3013 (LP)	SP/LP (SELF RECORD) PLAYBACK	VIDEO SWEEP SIGNAL (Shown in Fig. E7)
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE/ VIDEO SWEEP GENERATOR	SP: 0+−1 (dB) (90−110%) LP: 0+−1 (dB) (90−110%)	

Note: 1. Set the Video Sweep Signal as shown in Fig. E7.
2. Supply 5.05+−0.15V DC to TW6 through the resistor (1 Kohm).
3. Supply 5.05+−0.15V DC to TW7 through the resistor (68 Kohm).



CONDITION: BURST SIGNAL OFF
75 ohm TERMINATED

Fig. E7

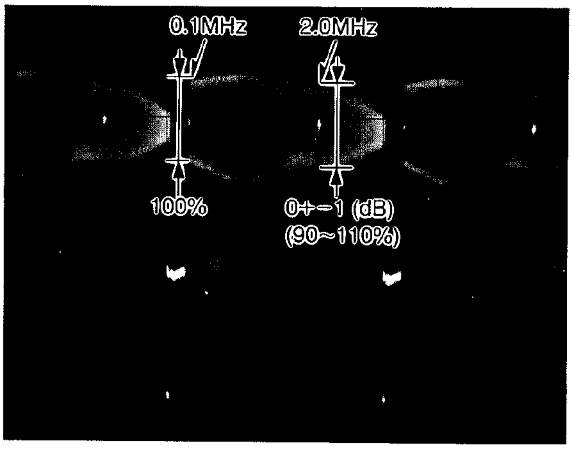


Fig. E8

2-5-8. PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR303	PLAYBACK	
TAPE	M. EQ.	SPEC.	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	Y: 2.0+−0.1 (Vp-p) CYAN: 1.1+−0.2 (Vp-p)	

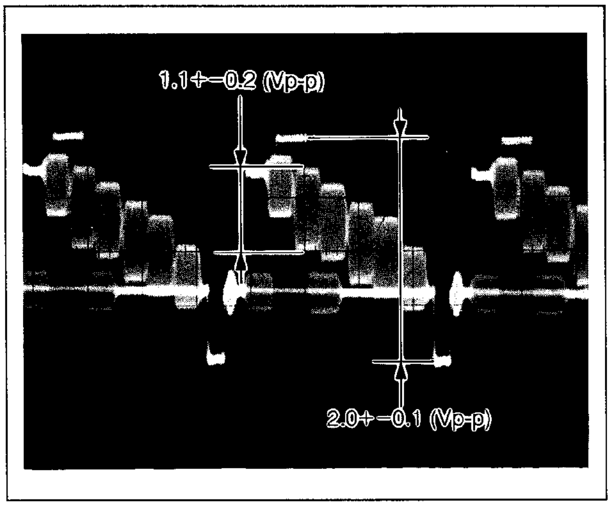


Fig. E9

2-5-9. DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR301 VR302	(SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	Y: 2.0+−0.1 (Vp-p) (VIDEO: SYNC=70 : 30)	

Note:
1. Before this adjustment, the PLAYBACK LEVEL ADJUSTMENT (2-5-8) must be done.
2. Record the colour bar signal and adjust VR301 and VR302 during recording.
3. Playback the just recorded portion and confirm the playback Y-signal level is 2.0+−0.1 Vp-p.
4. If the signal level is out of the specification, repeat 2 and 3 until the signal level is the specification.

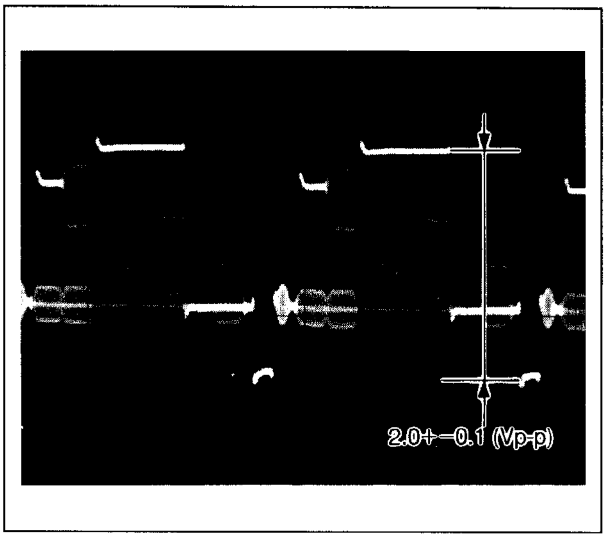


Fig. E10

2-5-10. SECAM KILLER ADJUSTMENT (NV-HD600BD Only)

TP	ADJ.	MODE	INPUT
IC881-11	T881	SP RECORDING	SECAM COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	MINIMIZE AMPLITUDE ("A" PORTION: NEGATIVE PEAK)	

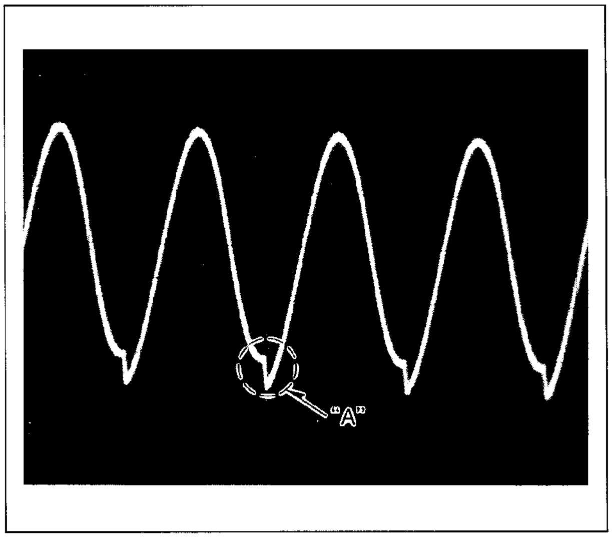


Fig. E11

AUDIO SECTION

2-5-11. BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (HOT) TP4003 (GND)	VR4001	RECORDING	
TAPE	M. EQ.	SPEC.	
BLANK TAPE	D.V.M.	2.6+−0.1 (mVrms)	

Note: 1. Connect the Audio Input and GND.

2-5-12. CARRIER FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC4501-34 (L) IC4501-47 (R)	VR4501 (NTSC-L) VR4509 (NTSC-R) VR4551 (PAL-L) VR4552 (PAL-R)	SP RECORDING	
TAPE	M. EQ.	SPEC.	
BLANK TAPE	FREQUENCY COUNTER	NTSC-L: 1.3+−0.003 (MHz) NTSC-R: 1.7+−0.003 (MHz) PAL-L: 1.4+−0.003 (MHz) PAL-R: 1.8+−0.003 (MHz)	

Note: 1. When adjusting the NTSC mode, connect a jumper wire between PP3002-2 and GND.
2. When adjusting the PAL mode, disconnect a jumper wire.

2-5-13. DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
BETWEEN VR4502 and R4511 (L) BETWEEN VR4507 and R4561 (R)	VR4502 (L) VR4507 (R)	SP RECORDING	SINEWAVE 1KHz/−10dB
TAPE	M. EQ.	SPEC.	
BLANK TAPE	V.T.V.M./ SINEWAVE GENERATOR	120 (mVrms)	

Note: 1. Before recording the sinewave, set the sinewave generator until the audio outputs (L) and (R) are 400mVrms.

2-5-14. FM B.P.F. ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC4501-33 (L) IC4501-48 (R)	VR4550	PLAYBACK	SINEWAVE 1.608MHz/ 200mVp-p (PK4003-8)
TAPE	M. EQ.	SPEC.	
NTSC RECORDED TAPE	OSCILLO-SCOPE/ SINEWAVE GENERATOR	Lch (IC4501-33)= Rch (IC4501-48)	

Note: 1. Disconnect P501 (from MAIN C.B.A. to HEAD AMP PACK C.B.A.).
2. The GND lead of oscilloscope must be connected to GND on HIFI AUDIO PACK C.B.A. to reduce the noise.
3. Supply the sinewave signal (1.608MHz/200mVp-p) to PK4003-8.
4. After this adjustment, connect P501.

TIMER SECTION

2-5-15. TIMER REFERENCE CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
TL7501	C7512	STOP	
TAPE	M. EQ.	SPEC.	
	UNIVERSAL COUNTER	7812.5+−0.015 (usec)	

SECTION 3
ABBREVIATIONS & BLOCK DIAGRAMS

3-1. ABBREVIATIONS

443NT [L]	4.43 NTSC Ⓛ
A. COMP	AUDIO COMPONENT SIGNAL
A. COMPO	AUDIO COMPONENT SIGNAL
A. D.P [L]	AUDIO DUBBING PAUSE Ⓛ
A. D/L [L]	AUDIO DUBBING PAUSE Ⓛ
A. DEF [S]	AUDIO DEFEAT
A. DEF [S] [L]	AUDIO DEFEAT
A. DUB P [L]	AUDIO DUBBING PAUSE Ⓛ
A. DUB [H]	AUDIO DUBBING Ⓗ
A. ERASE	AUDIO ERASE
A. H. SW	AUDIO HEAD SWITCHING PULSE
A. HEAD [R]	AUDIO HEAD (REC)
A. HEAD [W]	AUDIO HEAD (PLAY)
A. IN [L]	AUDIO INPUT (L)
A. IN [R]	AUDIO INPUT (R)
A. MUT [H]	AUDIO MUTE Ⓗ
A. MUTE [H]	AUDIO MUTE Ⓗ
A. OUT [L]	AUDIO OUTPUT (L)
A. OUT [R]	AUDIO OUTPUT (R)
A. RF OUT	AUDIO RF SIGNAL OUTPUT
A/VS/S. DATA	AV SW/SERIAL DATA
AC ONLINE	AC ONLINE
AC. O/EE. H	AC ONLINE/EE Ⓗ
AFC S C	AFC S CURVE
AFC [S]	AFC S CURVE
AFC. DEF	AFC DEFEAT
ARFC OUT	AUDIO RF SIGNAL OUTPUT
ART. V	ARTIFICIAL VERTICAL SYNC SIGNAL
ART. V. MM	ARTIFICIAL VERTICAL SYNC SIGNAL MONO MULTI
ART. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL Ⓗ/NORMAL
AT. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL
ATSW/TEST/NOR/SE	TEST/NORMAL/SERVICE
AUDIO IN [L]	AUDIO INPUT (L)
AUDIO IN [R]	AUDIO INPUT (R)
AUDIO OUT [L]	AUDIO OUTPUT (L)
AUDIO OUT [R]	AUDIO OUTPUT (R)
AUDIO SELECT [H]	AUDIO SELECT Ⓗ
AUDIO. L	AUDIO (L)
AUDIO. R	AUDIO (R)
AV CNT	AV CONTROL
AV CTL	AV CONTROL
AV CTL/S. CLK	AV CONTROL/SERIAL CLOCK
AV. C.M.	AV CONTROL MODE
AVCNT/METER. R	AV CONTROL/LEVEL METER (R)
AVSW/METER. L	AV SW/LEVEL METER (L)
B MODE. H	B MODE Ⓗ
B.G.P	BURST GATE PULSE
BACKUP 5V	BACK UP 5V
BAND. U.E.	BAND U
BANDVL. D	BAND VL
BI/MI [L]	BILINGUAL/MIX Ⓛ
BIL	BILINGUAL
BIL [L]	BILINGUAL Ⓛ

BIL. [H]	BILINGUAL Ⓗ
BIL/M1 [L]	BILINGUAL Ⓛ
BS CLOCK	BS CLOCK
BS DATA	BS DATA
BS LCH IN	BS L CHANNEL INPUT
BS MIX [H]	BS MIX Ⓗ
BS MON [H]	BS MONITOR Ⓗ
BS MONI [H]	BS MONITOR Ⓗ
BS RCH IN	BS R CHANNEL INPUT
BS VIDEO	BS VIDEO SIGNAL
BS VIDEO/BS1	BS VIDEO SIGNAL
BS [H]	BS Ⓗ
BS. LEVEL	BS LEVEL
BS. M [H]	BS MONITOR Ⓗ
BS/VTR [H]	BS/VTR Ⓗ
BUS CLK	BUS CLOCK
BUS LSN	BUS LISTEN
BUS TLK	BUS TALK
BUZZER	BUZZER
CAP EC	CAPSTAN TORQUE CONTROL
CAP M GND	CAPSTAN MOTOR GND
CAP. ET	CAPSTAN TORQUE CONTROL
CAP. FG1	CAPSTAN FG1 PULSE
CAP. FG2	CAPSTAN FG2 PULSE
CAS. SW	CASSETTE SW
CCN	PLAYBACK CONTROL SIGNAL (−)
CCP	PLAYBACK CONTROL SIGNAL (+)
CHM	CONTROL SIGNAL (+)
CHP	CONTROL SIGNAL (−)
CINEM [L]	CINEMA Ⓛ
CINEMA [L]	CINEMA Ⓛ
CINEMA/MIX	CINEMA/MIX
CKL	RATCH LOCK
CKS	SHIFT LOCK
CL	CLOCK
CLK	CLOCK
CLK (C.G)	CLOCK
CLOCK. IN	CLOCK INPUT
CLP	CLAMP
COL/B/W/NOR	COLOUR/BLACK & WHITE/NORMAL
COLOR [H]	COLOUR Ⓗ
CONV	CONVERTOR
CS	CHIP SELECT
CTL GND	CONTROL GND
CTL HEAD [+]	CONTROL HEAD (+)
CTL HEAD [−]	CONTROL HEAD (−)
CTL [+]	CONTROL HEAD (+)
CTL [−]	CONTROL HEAD (−)
CUE BIAS	CUE BIAS
CURRENT LIM	CURRENT LIMMITER
CYL ET	CYLINDER TORQUE CONTROL
CYL GND	CYLINDER GND
D.F.M. REC [H]	DELAIED FM RECORDING Ⓗ
D. FM REC [L]	DELAIED FM RECORDING Ⓛ
D. GND	DIGITAL GND

D. REC [H]	DELAYED RECORDING Ⓗ
D4/S. LED	D4/STILL LED
D4/STILLED	D4/STILL LED
DAC [CLK]	TUNER DAC (CLOCK)
DAC/FSCS	TUNER DAC/FS CHIP SELECT
DAREC [H]	DELAYED AUDIO RECORDING Ⓗ
DATA	DATA
DECODER [L]	DECODER (L)
DECODER [R]	DECODER (R)
DEW	DEW
DEW SNS	DEW SENSOR
DFMRE [H]	DELAYED FM AUDIO RECORDING Ⓗ
E. REC 5V	EXCEPT RECORDING 5V
EC	ERR0R TORQUE CONTROL
ECR	ERROR TORQUE CONTROL REFERENCE VOLTAGE
EDT TRIG [L]	EDIT TRIGGER Ⓛ
EDIT [H]	EDIT Ⓗ
EE [H]	EE Ⓗ
EE [H]/INS [M]	EE Ⓗ/INSERT Ⓜ
EE. VV. TR	EE/VV/TRICK PLAY
EJECT. PO	EJECT POSITION
EJECT/VDET	EJECT/REVERSE SLOW LOCK
ENV. SEL	ENVELOPE SELECT
ENVE. OUT	ENVELOPE OUTPUT
ENVE. SEL	ENVELOPE SELECT
ENV SELECT	ENVELOPE SELECT
EP [H]	LP Ⓗ
EP/LP [H]	LP Ⓗ
EP/LP/SP	LP/SP
EP/SS [H]	LP/SLOW/STILL/STOP Ⓗ
EPROMCS	EPROM CHIP SELECT
EX. REC 5V	EXCEPT RECORDING 5V
FF/REW [L]	FIRST FORWARD/REWIND Ⓛ
FG1 IN	FG1 PULSE INPUT
FG2 IN	FG2 PULSE INPUT
FILTER ADJUSTMEN	FILTER ADJUSTMENT
FLY ERASE [H]	FLYING ERASE HEAD ON Ⓗ
FLY ON [H]	FLYING ERASE E HEAD ON Ⓗ
FLY. E [H]	FLYING ERASE HEAD ON Ⓗ
FM MUT [H]	FM AUDIO MUTE Ⓗ
FM MUTE [H]	FM AUDIO MUTE Ⓗ
FM OUT [L]	FM OUTPUT (L)
FM OUT [R]	FM OUTPUT (R)
FM PACK OUT [L]	FM PACK OUTPUT (L)
FM PACK OUT [R]	FM PACK OUTPUT (R)
FM/BS SEL [L]	FM/BS SELECT (L)
FM/BS SEL [R]	FM/BS SELECT (R)
FS. CLK	FS CLOCK
FUL. E [H]	FULL ERASE HEAD ON Ⓗ
FULL. E [H]	FULL ERASE HEAD ON Ⓗ
FULL. E. 12V	FULL ERASE 12V
GND [A]	GND (ANALOGUE)
GND [TU]	GND (TUNER)
GND/N. SW. 12V	GND/NON SW 12V

H. SYNC	HORIZONTAL SYNC
H. AMP. SW	HEAD AMP SW PULSE
H. P <R>	HEAD PHONE (R)
H. P <L>	HEAD PHONE (L)
H. P GND	HEAD PHONE GND
H. P OUT [L]	HEAD PHONE OUTPUT (L)
H. P OUT [R]	HEAD PHONE OUTPUT (R)
H. SW	HEAD SW PULSE
HEAD PHONE [L]	HEAD PHONE (L)
HEAD PHONE [R]	HEAD PHONE (R)
HEAD SW	HEAD SW
HEATER [+]	HEATER (+)
HEATER [−]	HEATER (−)
HSS	HORIZONTAL SYNC SIGNAL
HTR [+]	HEATER (+)
HTR [−]	HEATER (−)
I RFE	REFERENCE CURRENT
ICL	CONTROL AGC CIRCUIT
IF	INTERMEDIATE FREQUENCY
IN SELA1	INPUT SELECT A1 POSITION
IN SELA2	INPUT SELECT A2 POSITION
IN SELA3	INPUT SELECT A3 POSITION
INS L/R [L]	INSERT Lch/Rch Ⓛ
INS. [H]	INSERT Ⓗ
INSEL A1	INPUT SELECT A1 POSITION
INSEL A2	INPUT SELECT A2 POSITION
INSERT	INSERT
INSERT [H]	INSERT Ⓗ
IO CS	INPUT/OUTPUT CHIP SELECT
JOG1	JOG1
JOG S3 LED/FOWRD	JOG LED/FORWARD LED
JOG/F. LED	JOG LED/FORWARD LED
JSB [H]	JSB Ⓗ
JST. CLCK	JUST CLOCK
JST. CLK	JUST CLOCK
JST. CLOCK	JUST CLOCK
L. OUT	Lch OUTPUT
L. CH [H]	Lch Ⓗ
L. CH [L]	Lch Ⓛ
LED (MAIN)	LED (MAIN)
LED (STEREO)	LED (STEREO)
LED (SUB)	LED (SUB)
LED CKL	LED SERIAL CLOCK
LED CKS	LED SERIAL CLOCK
LED DATA	LED SERIAL DATA
LINE IN 1 [L]	LINE INPUT 1 (L)
LINE IN 1 [R]	LINE INPUT 1 (R)
LINE IN 2 [L]	LINE INPUT 2 (L)
LINE IN 2 [R]	LINE INPUT 2 (R)
LINE IN V	LINE INPUT VIDEO
LINE IN [L]	LINE INPUT (L)
LINE IN [R]	LINE INPUT (R)
LINE OUT [L]	LINE OUTPUT (L)
LINE OUT [R]	LINE OUTPUT (R)
LP [H]	LP Ⓗ

LPTRI [
Lch/A.
M GND
M REG
MAIN (
MAIN [
MAIN/
MAX IN
MES [H
MESE [
MESE [
METER
METER
METER
METER.
METER.
MI/BI [L
MIC GN
MIC IN
MIC IN
MIC IN
MIC [H]
MIX [H]
MIX [H]/
MIX/CI
MIX/CI
MN. H/
MN. H/
MN2/M
MODE
MODE
MODE.
MODE.
MONO [
MONO [
MONO2
MONO2/
MOTOR
MUTE
N. A. RE
N. SW 1.
N. SW.
NICAM
NICAM [
NOL [H]
NOR/SO
NORMA
NR BIAS
NTSC [L
OCH
OUT
P-OFF [
P-OFF [L
P. FAIL
P. OFF [

IC
JLSE

D
TPUT (L)
TPUT (R)

C SIGNAL

RENT
RCUIT
REQUENCY
POSITION
POSITION
POSITION
)
POSITION
POSITION

IP SELECT

D LED
D LED

LPTRI [L]	LP TRICK PLAY Ⓛ
Lch/A. DUB	Lch/AUDIO DUBBING
M GND	MOTOR GND
M REG	MOTOR REGULATOR
MAIN OUT	MAIN OUTPUT
MAIN [L]	MAIN Ⓛ
MAIN/MONO	MAIN/MONAURAL
MAX IN	MAXIMAM INPUT
MES [H]	MESECAM Ⓗ
MESE [H]	MESECAM Ⓗ
MESE [L]	MESECAM Ⓛ
METER 5V	LEVEL METER 5V
METER [L]	LEVEL METER (L)
METER [R]	LEVEL METER (R)
METER. L/AVS	LEVEL METER (L)
METER. R/AVC	LEVEL METER (R)
MI/BI [L]	MIX Ⓗ/BILIGUAL
MIC GND	MIC GND
MIC IN	MIC INPUT
MIC IN [L]	MIC INPUT (L)
MIC IN [R]	MIC INPUT (R)
MIC [H]	MIC Ⓗ
MIX [H]	MIX Ⓗ
MIX [H]/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ
MIX/CINE	MIX Ⓗ/CINEMA SOUND Ⓛ
MIX/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ
MN. H/M. L	MONAURAL Ⓗ/MAIN Ⓛ
MN. H/MAI. L	MONAURAL Ⓗ/MAIN Ⓛ
MN2/MES. L	MONAURAL 2/MESECAM Ⓛ
MODE SEL	AUDIO MODE SELECT
MODE SW	AUDIO MODE SW
MODE. S. IN	AUDIO MODE SELECT INPUT
MODE. S. OUT	AUDIO MODE SELECT OUTPUT
MONO [H]	MONAURAL Ⓗ
MONO [H]/MAIN [L]	MONAURAL Ⓗ/MAIN Ⓛ
MONO2 [L]	MONAURAL 2
MONO2/MESE [FM(L)]	MONAURAL 2/MESECAM (FM Ⓛ)
MOTOR GND	MOTOR GND
MUTE	MUTE
N. A. REC [L]	NORMAL AUDIO RECORDING
N. SW 12V	NON SW 12V
N. SW. 5. DET	NON SW 5V DETECT
NICAM	NICAM
NICAM [L]	NICAM Ⓛ
NOL [H]	PAL Ⓗ/4.43 NTSC Ⓜ/3.58 NTSC Ⓛ
NOR/SOFT [H]	NORMAL/SOFT TAPE PLAY Ⓗ
NORMAL [H]	NORMAL Ⓗ
NR BIAS	NR BIAS
NTSC [L]	NTSC Ⓛ
OCH	CONTROL AGC CIRCUIT
OUT	OUTPUT
P-OFF [H]	POWER OFF Ⓗ
P-OFF [L]	POWER OFF Ⓛ
P. FAIL	POWER FAILURE DETECT
P. OFF [H]	POWER OFF Ⓗ

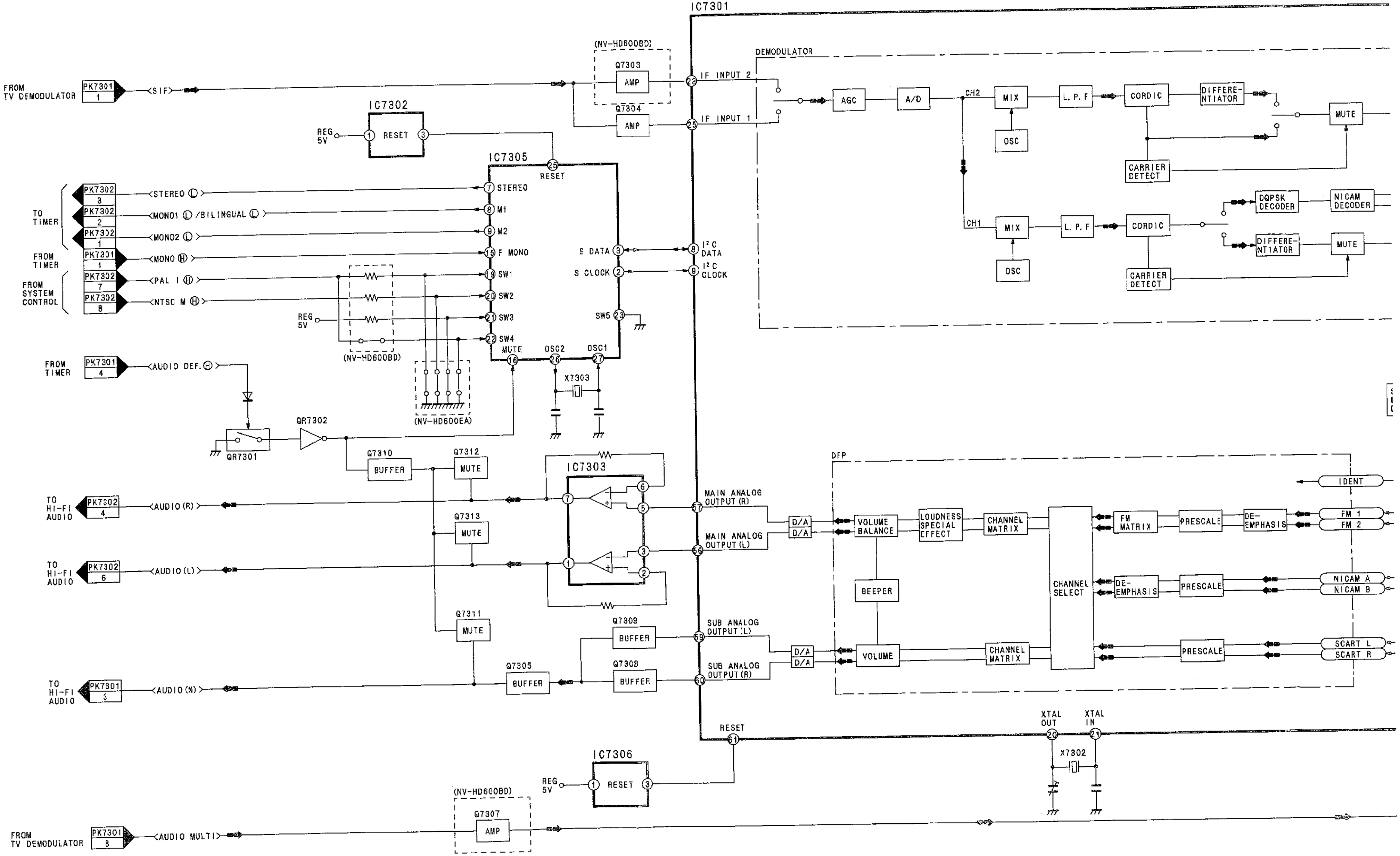
P. OFF [L]	POWER OFF Ⓛ
PAL [H]	PAL Ⓗ
PAL [L]/NTSC [H]	PAL Ⓛ/NTSC Ⓗ
PB ADJ OUT	PLAYBACK ADJUST OUTPUT
PB OUT	PLAYBACK OUTPUT
PB. H	PLAYBACK Ⓗ
PFG	PG/FG
PHOTSN +B	PHOTO SENSOR +B
PICT. CNT	PICTURE CONTROL
PLAY LED/RVS LED	PLAY LED/REVERSE LED
PLAY. PO	PLAY POSITION
PLAY/R. LED	PLAY LED/REVERSE LED
PLY/DEW	PLAY/DEW Ⓗ
POWER OFF [L]	POWER OFF Ⓛ
PREROLL [H]	PREROLL Ⓗ
PWRFAIL	POWER FAILURE DETECT
R. CH [H]	Rch Ⓗ
R. CH [L]	Rch Ⓛ
R. ST	RESET
R/S/F	REVERSE Ⓗ/STOP Ⓜ/FORWARD Ⓛ
RCH [H]	Rch Ⓗ
REC 12V	RECORDING 12V
REC CHROMA	RECORDING CHROMINANCE SIGNAL
REC H	RECORDING Ⓗ
REC IN	RECORDING INPUT
REC OUT [L]	RECORDING OUTPUT Ⓛ
REC START	RECORDING START
REC VR [C]	RECORDING VOLUME (COMMON)
REC VR [L]	RECORDING VOLUME (L)
REC VR [R]	RECORDING VOLUME (R)
REC Y	RECORDING LUMINANCE SIGNAL
REC [H]	RECORDING Ⓗ
REC. C	RECORDING CHROMINANCE SIGNAL
REC. Y	RECORDING LUMINANCE SIGNAL
REC/EE CTL	RECORDING/EE CONTROL
REEL-T	REEL PULSE (TAKE-UP)
REEL-S	REEL PULSE (SUPPLY)
REGULATOR FILTER	REGULATOR FILTER
RESET	RESET
REV M F/R	REVIEW MOTOR FORWARD/REVERSE
REV M V1	REVIEW MOTOR V1
REV M V2	REVIEW MOTOR V2
REV MOTOR F/R	REVIEW MOTOR FORWARD/REVERSE
REV MOTOR V1	REVIEW MOROR V1
REV MOTOR V2	REVIEW MOTOR V2
REV MOTOR [+]	REVIEW MOTOR (+)
REV MOTOR [−]	REVIEW MOTOR (−)
REV. M. GND	REVIEW MOTOR GND
RF. CHROMA	RF CHROMINANCE SIGNAL
RF OUT	RF OUTPUT
RF Y	RF LUMINANCE SIGNAL
RF. Y. IN	RF LUMINANCE SIGNAL INPUT
RF. Y. OUT	RF LUMINANCE SIGNAL OUTPUT

ROTAR. SW	ROTARY SW
ROTARY	ROTARY SW
RST	RESET
RST [L]	RESET Ⓛ
Rch/INST	Rch/INSERT
S IN	SERIAL DATA INPUT
S OUT	SERIAL DATA OUTPUT
S-PHOTO	SUPPLY PHOTO TRANSISTOR
S-RL. PLS	SUPPLY REEL PULSE
S. CLK	SERIAL CLOCK
S. CLK/AV	SERIAL CLOCK/AV
S. DATA	SERIAL DATA
S. DATA/A	SERIAL DATA
S. PHOTO	SUPPLY PHOTO TRANSISTOR
S. TAB [L]	SAFETY TAB SW ON Ⓛ
S/P/N	SECAM/PAL/NTSC
SC IN	SERIAL CLOCK INPUT
SC OUT	SERIAL CLOCK OUTPUT
SCK SELECT	SERIAL CLOCK SELECT
SEL OUT [L]	SELECT OUTPUT (L)
SEL OUT [R]	SELECT OUTPUT (R)
SHUTTLE 1	SHUTTLE 1
SIF	SOUND INTERMEDIATE FREQUENCY
SLMUT [H]	INPUT SELECT MUTE Ⓗ
SLNID [+]	SOLENOID (+)
SLNID [−]	SOLENOID (−)
SLW TR. MM	SLOW TRACKING MONO MULTI
SLW TR. REF	SLOW TRACKING REFERENCE VOLTAGE
SNS. GND	SENSOR GND
SOFT [H]	SOFT TAPE PLAY Ⓗ
SOFT [H]/NORMAL	SOFT TAPE PLAY Ⓗ/NORMAL Ⓗ
SOLENOID ON [L]	SOLENOID ON Ⓛ
SP [H]	SP Ⓗ
SP/L/SLP	SP/LP
SSS [L]	SLOW/STILL/STOP
STEREO LED	STEREO LED
STEREO [H]	STEREO Ⓗ
STEREO [L]	STEREO Ⓛ
STOP. PO	STOP POSITION
STOP/5V	STOP POSITION/5V
STOP1/TAPE SEL	STOP1 POSITION/TAPE SELECT
STOP1/PAL:ST	STOP1 POSITION/PAL
STOP2. PO	STOP 2 POSITION
STOP2/S-TAB	STOP 2 POSITION/SAFETY TAB SW
STREO [H]	STEREO Ⓗ
SUB BIAS	SUB BIAS
SUB. SW	SUB SW
SVHS CAS [L]	S-VHS CASSETTE Ⓛ
SW. 5. DET	SW 5V DETECT
SYNC [L]	SYNC Ⓛ
SYSCON 5V	SYSTEM CONTROL 5V
SYSTEM	SYSTEM SW
T-PHOTO	TAKE-UP PHOTO TRANSISTOR
T-RL. PLS	TAKE-UP REEL PULSE

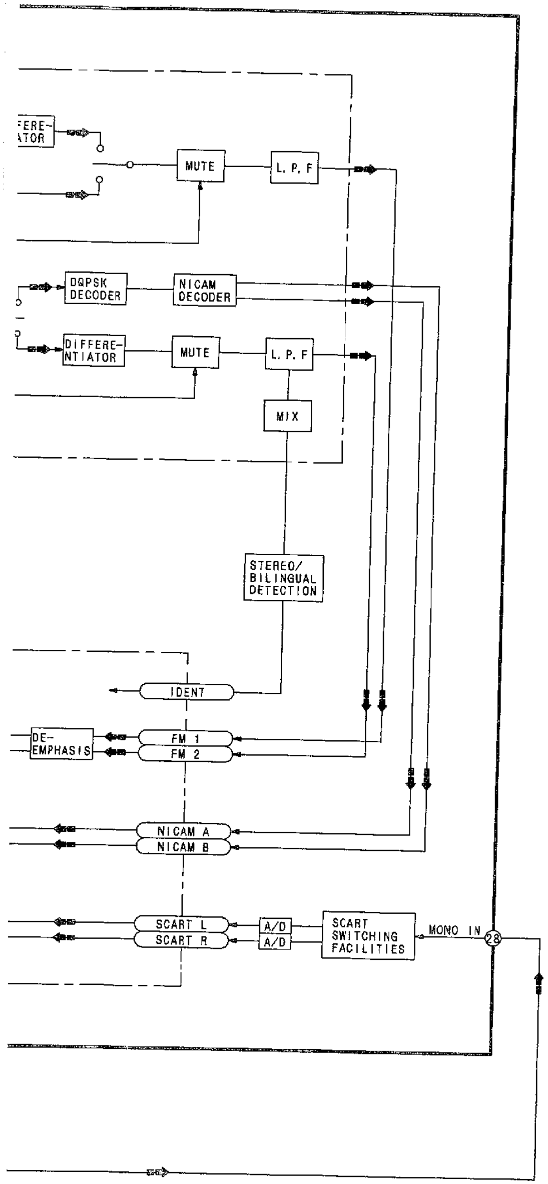
T. BUSCLK	TIMER BUS CLOCK
T. BUSLSN	TIMER BUS LISTEN
T. BUSTLK	TIMER BUS TALK
T. END [L]	TAPE END Ⓛ
T. PHOTO	TAKE-UP PHOTO TRANSISTOR
TAPE END [L]	TAPE END Ⓛ
TAPE END [L]/CAM	TAPE END Ⓛ/CAMERA PAUSE
TEST	TEST MODE
TPZ	TRAPEZOIDAL WAVE CIRCUIT
TRIC [L]	TRIC PLAY Ⓛ
TRICK [L]	TRIC PLAY Ⓛ
TRK. ENV	AUTO TRACKING ENVELOPE DETECT
TU. AUDIO	TUNER AUDIO
TU. GND	TUNER GND
TU. V. IN	TUNER VIDEO SIGNAL INPUT
TU. VIDEO	TUNER VIDEO
TUN NOR IN	TUNER NORMAL INPUT
TUN R	TUNER AUDIO (R)
TUN. AUDIO IN	TUNER AUDIO INPUT
TUNER 12V	TUNER 12V
TUNER L	TUNER AUDIO (L)
TUNER V IN	TUNER VIDEO SIGNAL INPUT
TUNER [L]	TUNER AUDIO (L)
TUNER [N]	TUNER AUDIO (NORMAL)
TUNER [R]	TUNER AUDIO (R)
TUNER. 12	TUNER 12V
TUOFF [H]	TUNER OFF Ⓗ
TV. AUDIO	TV AUDIO
TV/VTR	TV/VTR
TXTON [L]	TEXT ON Ⓛ
U. REG45V	UNREGULATOR 45V
UNREG	UNREGULATOR
UNREG19V	UNREGULATOR 19V
V. REF	REFERENCE VOLTAGE
V. EE [H]	VIDEO EE Ⓗ
V. EE [L]	VIDEO EE Ⓛ
VCO REF	REREFENCE OSCILLATER
VD. IN	VIDEO SIGNAL INPUT
VD. OUT	VIDEO SIGNAL OUTPUT
VIDEO EE [L]	VIDEO EE Ⓛ
VIDEO IN	VIDEO SIGNAL INPUT
VIDEO OUT	VIDEO SIGNAL OUTPUT
VM	MOTOR VOLTAGE
VM DOWN [L]	MOTOR VOLTAGE DOWN Ⓛ
VSS	VERTICAL SYNC SIGNAL
VTR [H]	VTR Ⓗ
VTR. 12V	VTR 12V
X IN	OSCILLATOR INPUT
X OUT	OSCILLATOR OUTPUT

3-2 NICAM DECODER BLOCK DIAGRAM (NV-HD600EA/BD)

AUDIO SIGN


IC7301
FROM TV DEMODULATOR
PK7301 1
<SIF>
(NV-HD600BD)
Q7303
AMP
Q7304
AMP
IF INPUT 2
IF INPUT 1
DEMODULATOR
AGC
A/D
CH2
CH1
MIX
OSC
L. P. F
CORDIC
CARRIER DETECT
DIFFERE-NTIATOR
MUTE
DQPSK DECODER
NICAM DECODER
IC7302
REG 5V
RESET
IC7305
RESET
TO TIMER
PK7302 3
PK7302 2
PK7302 1
FROM TIMER
PK7301 1
FROM SYSTEM CONTROL
PK7302 7
PK7302 8
<STEREO Ⓛ>
<MONO1 Ⓛ/BILINGUAL Ⓛ>
<MONO2 Ⓛ>
<MONO Ⓗ>
<PAL I Ⓗ>
<NTSC M Ⓗ>
STEREO
M1
M2
F MONO
SW1
SW2
SW3
SW4
MUTE
OSC2
OSC1
S DATA
S CLOCK
SW5
I²C DATA
I²C CLOCK
(NV-HD600BD)
(NV-HD600EA)
X7303
FROM TIMER
PK7301 4
<AUDIO DEF. Ⓗ>
QR7302
QR7301
Q7310
BUFFER
Q7312
MUTE
Q7313
MUTE
Q7311
MUTE
IC7303
TO HI-FI AUDIO
PK7302 4
<AUDIO (R)>
PK7302 6
<AUDIO (L)>
PK7301 3
<AUDIO (N)>
MAIN ANALOG OUTPUT (R)
MAIN ANALOG OUTPUT (L)
SUB ANALOG OUTPUT (L)
SUB ANALOG OUTPUT (R)
Q7309
BUFFER
Q7308
BUFFER
Q7305
BUFFER
D/A
DFP
VOLUME BALANCE
LOUDNESS SPECIAL EFFECT
CHANNEL MATRIX
BEEPER
VOLUME
CHANNEL SELECT
FM MATRIX
DE-EMPHASIS
PRESCALE
IDENT
FM 1
FM 2
NICAM A
NICAM B
SCART L
SCART R
RESET
XTAL OUT
XTAL IN
X7302
IC7306
REG 5V
RESET
(NV-HD600BD)
Q7307
AMP
FROM TV DEMODULATOR
PK7301 8
<AUDIO MULTI>

AUDIO SIGNAL PATH


ERE-
ATOR
MUTE
L. P. F
DQPSK DECODER
NICAM DECODER
DIFFERE-NTIATOR
MUTE
L. P. F
MIX
STEREO/ BILINGUAL DETECTION
IDENT
DE-EMPHASIS
FM 1
FM 2
NICAM A
NICAM B
SCART L
SCART R
A/D
A/D
SCART SWITCHING FACILITIES
MONO IN
28

TV SYSTEM SELECT

IC7305		TV SYSTEM	SOUND MODULATION
SW1	SW2		
L	L	B/G	FM-MONO/NICAM GERMAN MULTIPLEX
H	L	I	FM-MONO/NICAM
*	H	M	FM-MONO

*: DO NOT CARE

FM-MONO MODE SELECT

IC7305 SW3	FM-MONO MODE	FM-MONO SOURCE
L	INT	SIF (IF INPUT1, IF INPUT2)
H	EXT	AUDIO MULTI (MONO IN)

SIF INPUT SELECT

IC7305 SW4	SIF INPUT
L	IF INPUT 1
H	IF INPUT 2

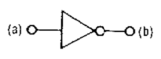
AUDIO OUTPUT SELECT

INPUT TV SYSTEM	SOUND MODULATION	FM-MONO MODE	MAIN OUTPUT		SUB OUTPUT	
			INPUT SOURCE	MATRIX	INPUT SOURCE	MATRIX
B/G	MONO	INT	IF INPUT 1/2 (FM)	MONAURAL	IF INPUT 1/2 (FM)	MONAURAL
		EXT	MONO IN	MONAURAL	MONO IN	MONAURAL
	NICAM STEREO	INT	IF INPUT 1/2 (NICAM)	STEREO	IF INPUT 1/2 (FM)	MONAURAL
		EXT	IF INPUT 1/2 (NICAM)	STEREO	MONO IN	MONAURAL
	NICAM M1/DATA	INT	IF INPUT 1/2 (NICAM)	MONAURAL	IF INPUT 1/2 (FM)	MONAURAL
		EXT	IF INPUT 1/2 (NICAM)	MONAURAL	MONO IN	MONAURAL
	NICAM M1/M2	INT	IF INPUT 1/2 (NICAM)	STEREO	IF INPUT 1/2 (FM)	MONAURAL
		EXT	IF INPUT 1/2 (NICAM)	STEREO	MONO IN	MONAURAL
	NICAM DATA	INT	IF INPUT 1/2 (FM)	MONAURAL	IF INPUT 1/2 (FM)	MONAURAL
		EXT	MONO IN	MONAURAL	MONO IN	MONAURAL
	STEREO	INT	IF INPUT 1/2 (FM)	STEREO	IF INPUT 1/2 (FM)	MONAURAL
	BILINGUAL	INT	IF INPUT 1/2 (FM)	STEREO	IF INPUT 1/2 (FM)	MONAURAL
I	MONO	INT	IF INPUT 1/2 (FM)	MONAURAL	IF INPUT 1/2 (FM)	MONAURAL
		EXT	MONO IN	MONAURAL	MONO IN	MONAURAL
	NICAM STEREO	INT	IF INPUT 1/2 (NICAM)	STEREO	IF INPUT 1/2 (FM)	MONAURAL
		EXT	IF INPUT 1/2 (NICAM)	STEREO	MONO IN	MONAURAL
	NICAM M1/DATA	INT	IF INPUT 1/2 (NICAM)	MONAURAL	IF INPUT 1/2 (FM)	MONAURAL
		EXT	IF INPUT 1/2 (NICAM)	MONAURAL	MONO IN	MONAURAL
	NICAM M1/M2	INT	IF INPUT 1/2 (NICAM)	STEREO	IF INPUT 1/2 (FM)	MONAURAL
		EXT	IF INPUT 1/2 (NICAM)	STEREO	MONO IN	MONAURAL
	NICAM DATA	INT	IF IMPUT 1/2 (FM)	MONAURAL	IF INPUT 1/2 (FM)	MONAURAL
		EXT	MONO IN	MONAURAL	MONO IN	MONAURAL
M	MONO	INT	IFINPUT 1/2 (FM)	MONAURAL	IF INPUT 1/2 (FM)	MONAURAL

Note: When the IC7305-15 (F MONO) is high, both the MAIN OUTPUT and the SUB OUTPUT apply the FM-MONO audio.

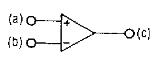
SYMBOL — **TRUTH VALUE TABLE**

INVERTER



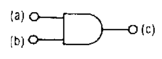
IN	(a)	H	L
OUT	(b)	L	H

COMPARTOR



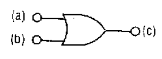
IN	(a) (b)	(a)>(b)	(a)<(b)
OUT	(c)	H	L

AND CIRCUIT



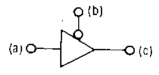
IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	L	L	H

OR CIRCUIT



IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	H	H	H

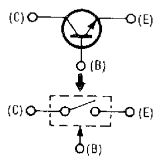
THREE STATES BUFFER



IN	(a)	H	L	H or L
	(b)	L	L	H
OUT	(c)	H	L	※

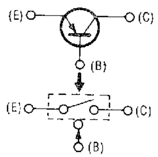
※ High Impedance

TR. SW (NPN TYPE)



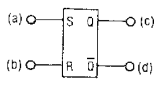
BASE	H	L
TR. SW	ON	OFF

TR. SW (PNP TYPE)



BASE	H	L
TR. SW	OFF	ON

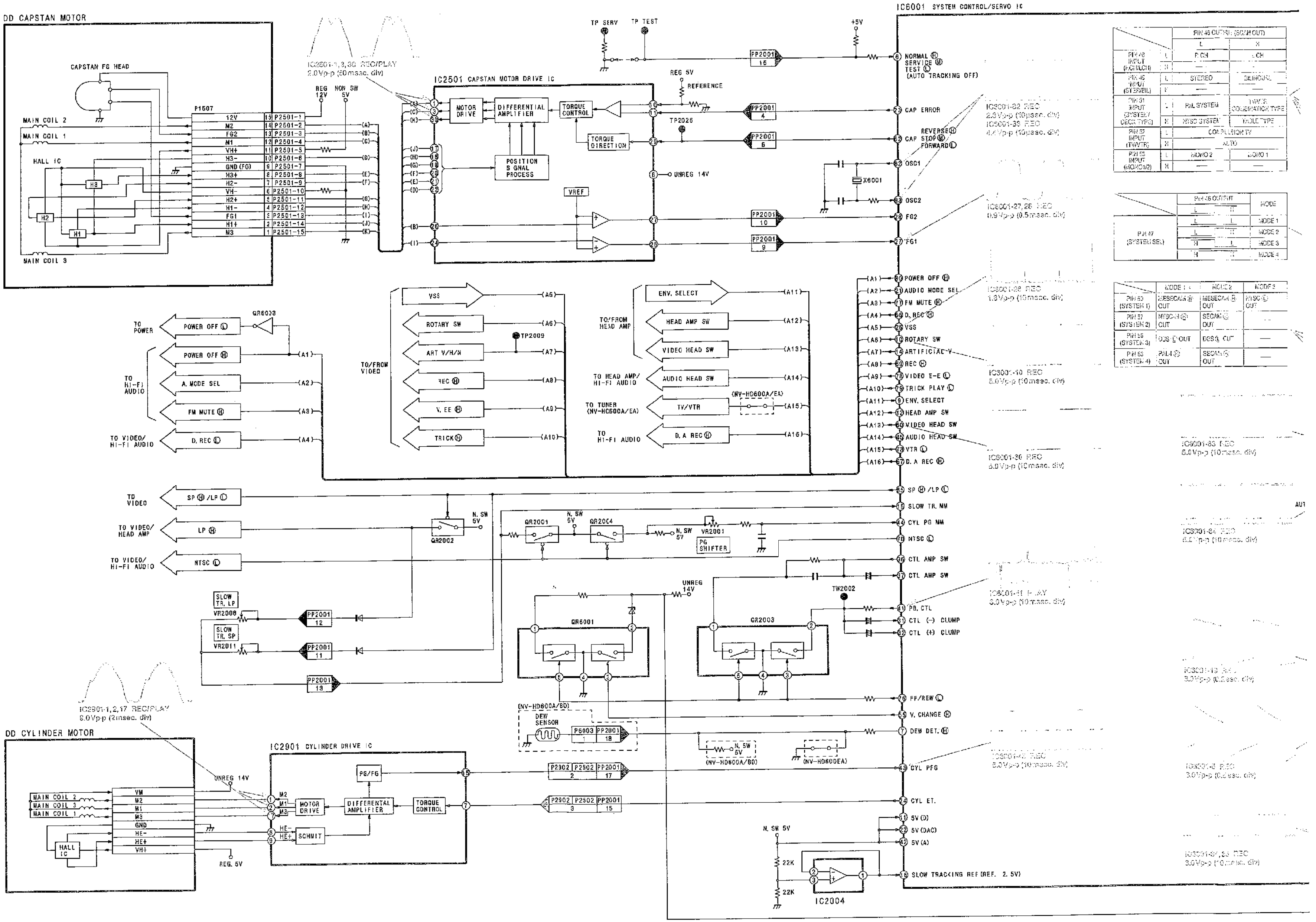
R-S TYPE FLIP-FLOP



IN	(a)	L	L	⎍
	(b)	L	⎍	L
OUT	(c)	※	L	H
	(d)	◆	H	L

※ Initial condition is maintained.
◆ Initial condition is reversed.

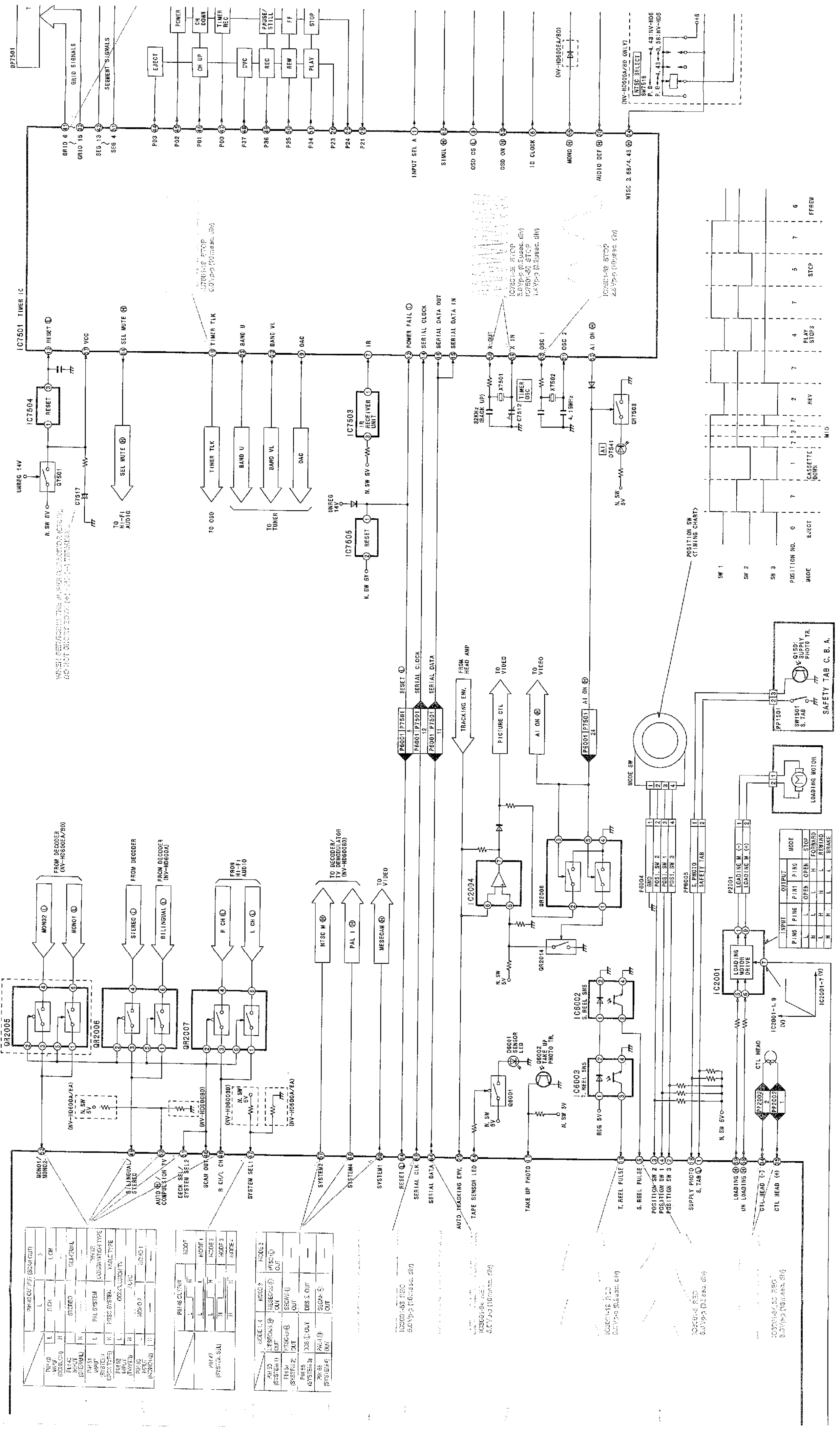
3-3 SYSTEM CONTROL & SERVO BLOCK DIAGRAM

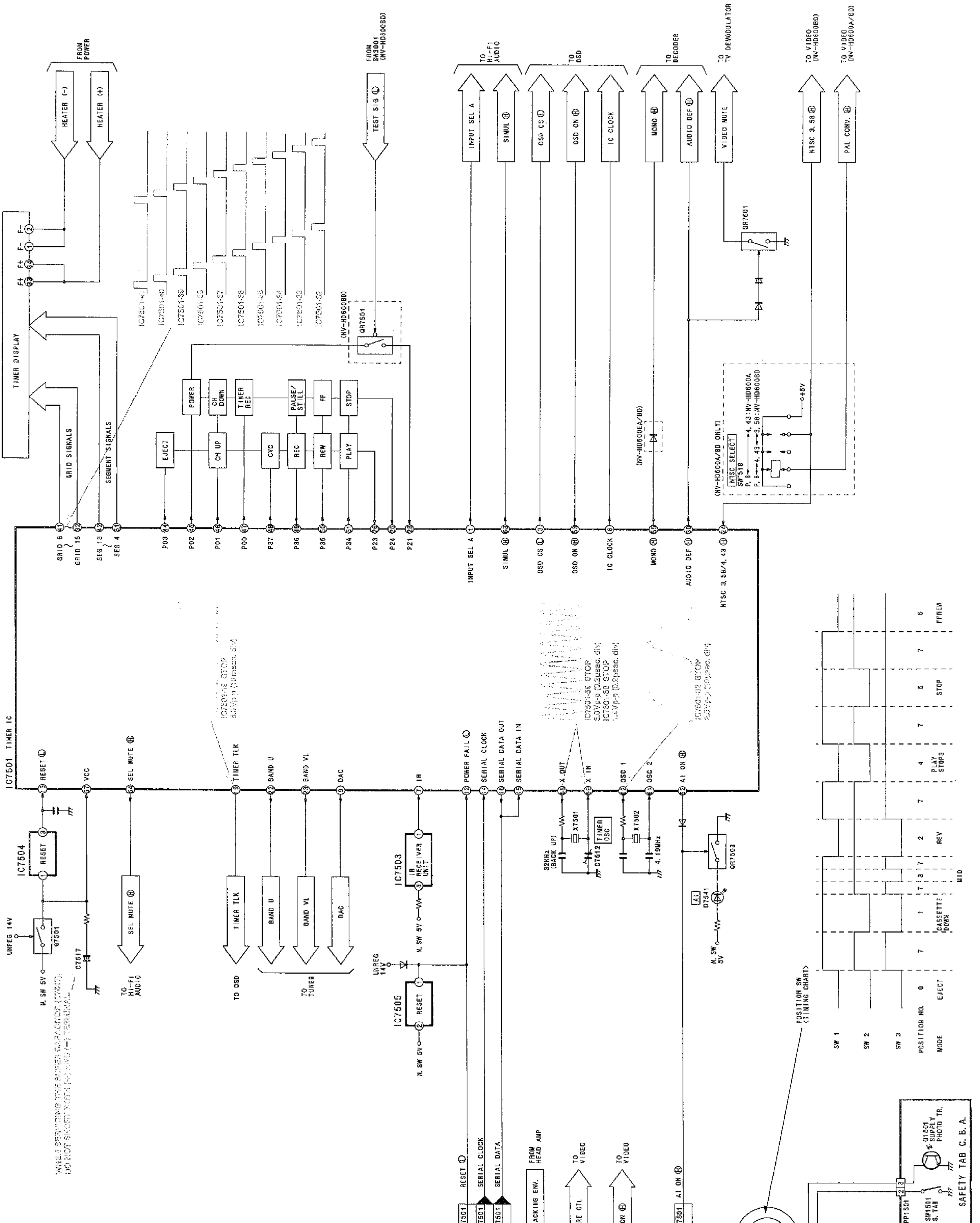

DD CAPSTAN MOTOR
CAPSTAN FG HEAD
MAIN COIL 2
MAIN COIL 1
HALL IC
H3
H2
H1
MAIN COIL 3
P1507
12V
M2
FG2
M1
VH+
H3-
GND (FG)
H3+
H2-
VH-
H2+
H1-
FG1
H1+
M3
P2501-1
P2501-15
REG 12V
NON SW 5V
IC2501-1,2,30 REC/PLAY 5.0Vp-p (50msec. div)
IC2501 CAPSTAN MOTOR DRIVE IC
MOTOR DRIVE
DIFFERENTIAL AMPLIFIER
TORQUE CONTROL
TORQUE DIRECTION
POSITION SIGNAL PROCESS
VREF
UNREG 14V
TP SERV
TP TEST
REG 5V
REFERENCE
TP2026
+5V
PP2001 16
PP2001 4
PP2001 6
PP2001 10
PP2001 9
X6001
IC6001 SYSTEM CONTROL/SERVO IC
NORMAL Ⓗ
SERVICE Ⓜ
TEST Ⓛ
(AUTO TRACKING OFF)
CAP ERROR
CAP STOP Ⓜ
REVERSE Ⓗ
FORWARD Ⓛ
OSC1
OSC2
FG2
FG1
IC6001-82 REC 2.3Vp-p (10μsec. div)
IC6001-35 REC 4.4Vp-p (10μsec. div)
IC6001-27,28 REC 0.9Vp-p (0.5msec. div)
POWER OFF Ⓗ
AUDIO MODE SEL
FM MUTE Ⓗ
D. REC Ⓗ
VSS
ROTARY SW
ARTIFICIAL-V
REC Ⓗ
VIDEO E-E Ⓛ
TRICK PLAY Ⓛ
ENV. SELECT
HEAD AMP SW
VIDEO HEAD SW
AUDIO HEAD SW
VTR Ⓛ
D. A REC Ⓗ
IC6001-26 REC 1.3Vp-p (10msec. div)
IC6001-10 REC 5.0Vp-p (10msec. div)
IC6001-30 REC 5.0Vp-p (10msec. div)
IC6001-83 REC 5.0Vp-p (10msec. div)
TO POWER
POWER OFF Ⓛ
QR6003
POWER OFF Ⓗ
A. MODE SEL
FM MUTE Ⓗ
D. REC Ⓛ
TO HI-FI AUDIO
TO VIDEO/HI-FI AUDIO
VSS
ROTARY SW
ART V/H/N
REC Ⓗ
V. EE Ⓗ
TRICK Ⓗ
TP2009
TO/FROM VIDEO
ENV. SELECT
HEAD AMP SW
VIDEO HEAD SW
AUDIO HEAD SW
TV/VTR
D. A REC Ⓗ
TO/FROM HEAD AMP
TO HEAD AMP/HI-FI AUDIO
TO TUNER (NV-HD600A/EA)
(NV-HD600A/EA)
TO HI-FI AUDIO
TO VIDEO
SP Ⓗ/LP Ⓛ
TO VIDEO/HEAD AMP
LP Ⓗ
TO VIDEO/HI-FI AUDIO
NTSC Ⓛ
QR2002
N. SW 5V
QR2001
QR2004
VR2001
PG SHIFTER
SLOW TR. NM
CYL PG NM
NTSC Ⓛ
IC6001-84 REC 5.0Vp-p (10msec. div)
AU1
CTL AMP SW
SLOW TR. LP
VR2006
SLOW TR. SP
VR2011
PP2001 12
PP2001 11
PP2001 13
UNREG 14V
QR6001
QR2003
TW2002
PB. CTL
CTL (-) CLUMP
CTL (+) CLUMP
IC6001-31 PLAY 5.0Vp-p (10msec. div)
FF/REW Ⓛ
V. CHANGE Ⓗ
DEW DET. Ⓗ
IC6001-13 REC 5.0Vp-p (0.5msec. div)
(NV-HD600A/BD)
DEW SENSOR
P6003 1
PP2001 18
(NV-HD600EA)
CYL PFG
CYL ET.
IC6001-43 REC 5.0Vp-p (10msec. div)
IC6001-8 REC 5.0Vp-p (0.5msec. div)
5V (D)
5V (DAC)
5V (A)
SLOW TRACKING REF (REF. 2.5V)
IC6001-87,33 REC 5.0Vp-p (10msec. div)
N. SW 5V
22K
22K
IC2004
IC2901-1,2,17 REC/PLAY 5.0Vp-p (2msec. div)
DD CYLINDER MOTOR
MAIN COIL 2
MAIN COIL 3
MAIN COIL 1
HALL IC
VM
M2
M1
M3
GND
HE-
HE+
VH+
UNREG 14V
REG 5V
IC2901 CYLINDER DRIVE IC
PG/FG
MOTOR DRIVE
DIFFERENTIAL AMPLIFIER
TORQUE CONTROL
SCHMIT
P2902 2
P2502 2
PP2001 17
P2902 3
P2502 3
PP2001 15

		PIN 46 OUTPUT (SCAN OUT) L	PIN 46 OUTPUT (SCAN OUT) H
PIN 48 INPUT (R.CH/L.CH)	L	R.CH	L.CH
	H	—	—
PIN 49 INPUT (STER/BIL)	L	STEREO	BILINGUAL
	H	—	—
PIN 51 INPUT (SYSTEM/DECK TYPE)	L	PAL SYSTEM	TV/VTR COMBINATION TYPE
	H	NTSC SYSTEM	TABLE TYPE
PIN 52 INPUT (TV/VTR)	L	COMPULSION TV	
	H	AUTO	
PIN 53 INPUT (MONO1/2)	L	MONO 2	MONO 1
	H	—	—

	PIN 46 OUTPUT L	PIN 46 OUTPUT H	MODE
PIN 47 (SYSTEM SEL)	L	L	MODE 1
	L	H	MODE 2
	H	L	MODE 3
	H	H	MODE 4

	MODE 1	MODE 2	MODE 3
PIN 50 (SYSTEM 1)	MESECAM Ⓗ OUT	MESECAM Ⓗ OUT	NTSC Ⓛ OUT
PIN 57 (SYSTEM 2)	NTSC-M Ⓗ OUT	SECAM Ⓗ OUT	—
PIN 56 (SYSTEM 3)	DDS Ⓛ OUT	DDS Ⓛ OUT	—
PIN 53 (SYSTEM 4)	PAL-I Ⓗ OUT	SECAM Ⓗ OUT	—

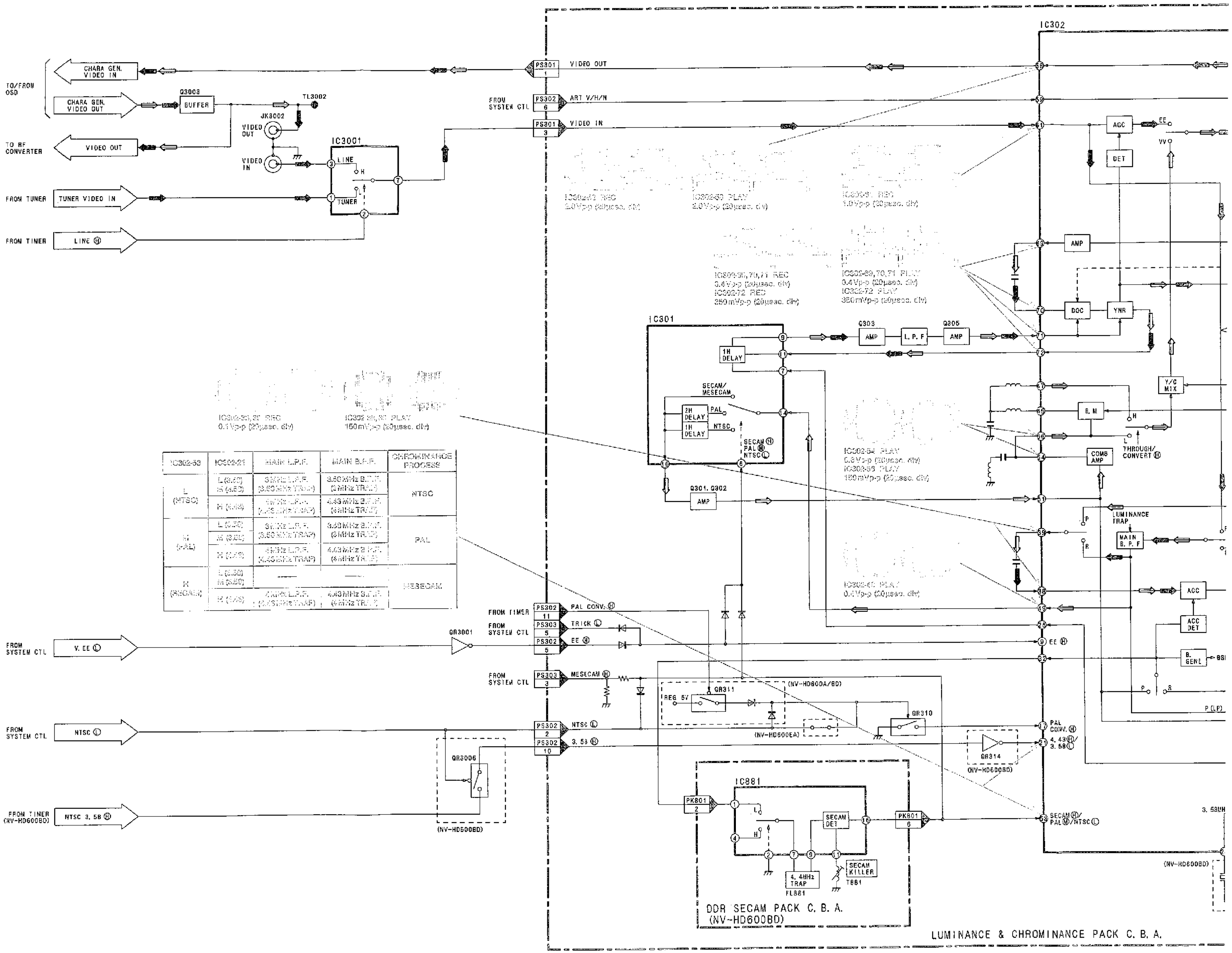

IC7501 TIMER IC
DP7501
GRID SIGNALS
SEGMENT SIGNALS
POWER
CH DOWN
TIMER REC
PAUSE/STILL
FF
STOP
EJECT
CH UP
CVC
REC
REW
PLAY
RESET
VCC
SEL MUTE
TIMER TLK
BAND U
BAND VL
OAC
IR
POWER FAIL
SERIAL CLOCK
SERIAL DATA OUT
SERIAL DATA IN
X-OUT
X IN
OSC 1
OSC 2
AI ON
INPUT SEL A
SIMUL
OSD CS
OSD ON
IC CLOCK
MONO
AUDIO DEF
NTSC 3.58/4.43
IC7504
IC7503
IR RECEIVER UNIT
IC7505
Q7501
UNREG 14V
N. SW 5V
TO HI-FI AUDIO
TO OSD
TO TUNER
X7501
X7502
32KHz (BACK UP)
4.19MHz
TIMER OSC
QR7503
D7541
NTSC SELECT
SW7516
(NV-HD600A/BD ONLY)
POSITION SW (TIMING CHART)
SW 1
SW 2
SW 3
POSITION NO.
MODE
EJECT
CASSETTE DOWN
MID
REV
PLAY STOP3
STOP
FFREW
QR2005
QR2006
QR2007
FROM DECODER (NV-HD600EA/BD)
MONO2
MONO1
STEREO
BILINGUAL
FROM DECODER (NV-HD600A)
FROM HI-FI AUDIO
R CH
L CH
TO DECODER/ TV DEMODULATOR (NV-HD600BD)
TO VIDEO
NTSC M
PAL I
MESECAM
RESET
SERIAL CLOCK
SERIAL DATA
TRACKING ENV.
FROM HEAD AMP
PICTURE CTL
AI ON
P6001
P7501
P5001
IC2004
QR2008
QR2014
D6001 SENSOR LED
Q6002 TAKE UP PHOTO TR.
Q6001
IC6003 T. REEL SNS
IC6002 S. REEL SNS
REG 5V
MODE SW
P6004
GND
POSI. SW 2
POSI. SW 1
POSI. SW 3
PP6005
S. PHOTO
SAFETY TAB
PP1501
SW1501 S. TAB
Q1501 SUPPLY PHOTO TR.
SAFETY TAB C.B.A.
LOADING MOTOR
P2001
LOADING M (-)
LOADING M (+)
IC2001
LOADING MOTOR DRIVE
CTL HEAD
PP2002
MONO1/MONO2
BILINGUAL/STEREO
AUTO/COMPULSORY
EECM SEL/SYSTEM SEL2
SCAN OUT
R CH/L CH
SYSTEM SEL1
SYSTEM2
SYSTEM4
SYSTEM1
RESET
SERIAL CLK
SERIAL DATA
AUTO TRACKING ENV.
TAPE SENSOR LED
TAKE UP PHOTO
T. REEL PULSE
S. REEL PULSE
POSITION SW 2
POSITION SW 1
POSITION SW 3
SUPPLY PHOTO
S. TAB
LOADING
UN LOADING
CTL HEAD (-)
CTL HEAD (+)
INPUT
OUTPUT
MODE
PIN6
PIN8
PIN1
PIN2
STOP
FORWARD
REWIND
BRAKE
OPEN


IC7501 TIMER IC
IC7504 RESET
IC7505 RESET
IC7503 IR RECEIVER UNIT
DP7501
TIMER DISPLAY
GRID SIGNALS
SEGMENT SIGNALS
GRID 6 ~ GRID 15
SEG 13 ~ SEG 4
F+ F+ F- F-
HEATER (-)
HEATER (+)
FROM POWER
UNREG 14V
N. SW 5V
Q7501
C7517
WHEN SERVICING THE SUPER CAPACITOR (C7517) DO NOT SHORT BETWEEN (+) AND (-) TERMINAL.
RESET Ⓛ
VCC
SEL MUTE Ⓗ
TO HI-FI AUDIO
TIMER TLK
BAND U
BAND VL
DAC
TO OSD
TO TUNER
IR
POWER FAIL Ⓛ
SERIAL CLOCK
SERIAL DATA OUT
SERIAL DATA IN
X OUT
X IN
OSC 1
OSC 2
AI ON Ⓗ
32KHz (BACK UP)
X7501
CT612 TIMER OSC
X7502
4.19MHz
D7541
QR7503
IC7501-12 STOP 5.0Vp-p (10μsec. div)
IC7501-56 STOP 5.0Vp-p (0.2μsec. div)
IC7501-59 STOP 4.4Vp-p (0.2μsec. div)
IC7501-58 STOP 3.0Vp-p (10μsec. div)
P03 P02 P01 P00 P37 P36 P35 P34 P23 P24 P21
EJECT
POWER
CH UP
CH DOWN
TIMER REC
CVC
REC
PAUSE/STILL
REW
FF
PLAY
STOP
QR7501 (NV-HD600BD)
TEST SIG Ⓛ
FROM SW3001 (NV-HD600BD)
IC7501-40 IC7501-39 IC7501-38 IC7501-37 IC7501-36 IC7501-35 IC7501-34 IC7501-33 IC7501-32
INPUT SEL A
SIMUL Ⓗ
OSD CS Ⓛ
OSD ON Ⓗ
IC CLOCK
MONO Ⓗ
AUDIO DEF Ⓗ
NTSC 3.58/4.43
TO HI-FI AUDIO
TO OSD
TO DECODER
VIDEO MUTE
TO TV DEMODULATOR
QR7601
(NV-HD600EA/BD)
(NV-HD600A/BD ONLY)
NTSC SELECT
SW7518
P, 8→4.43:NV-HD600A
P, 8→3.58:NV-HD600BD
+5V
NTSC 3.58 Ⓗ
PAL CONV. Ⓗ
TO VIDEO (NV-HD600BD)
TO VIDEO (NV-HD600A/BD)
P6001 P7501 5 RESET Ⓛ
P6001 P7501 12 SERIAL CLOCK
P6001 P7501 11 SERIAL DATA
P6001 P7501 24 AI ON Ⓗ
TRACKING ENV.
FROM HEAD AMP
PICTURE CTL
TO VIDEO
AI ON Ⓗ
TO VIDEO
DECODER
DECODER/DEMODULATOR (NV-HD600BD)
MODE SW
POSITION SW (TIMING CHART)
SW 1
SW 2
SW 3
POSITION NO. 0 7 1 7 3 7 2 7 4 7 6 7 5
MODE EJECT CASSETTE DOWN MID REV PLAY STOP3 STOP FF/REW
SAFETY TAB C.B.A.
PP1501
SW1501 S. TAB
Q1501 SUPPLY PHOTO TR.
LOADING MOTOR
M (-) M (+)
MODE STOP FORWARD REWIND BRAKE
TAB

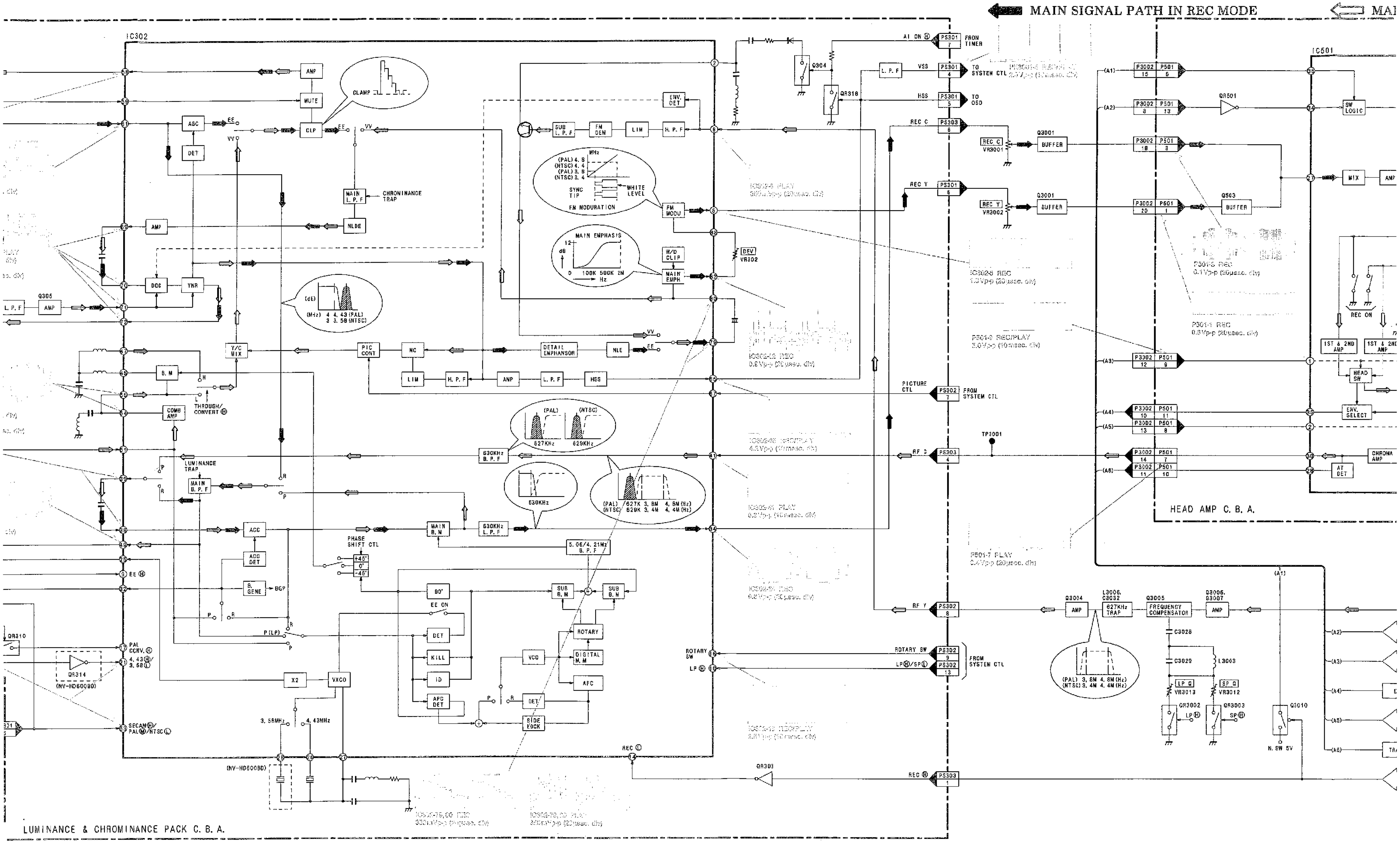
3—12

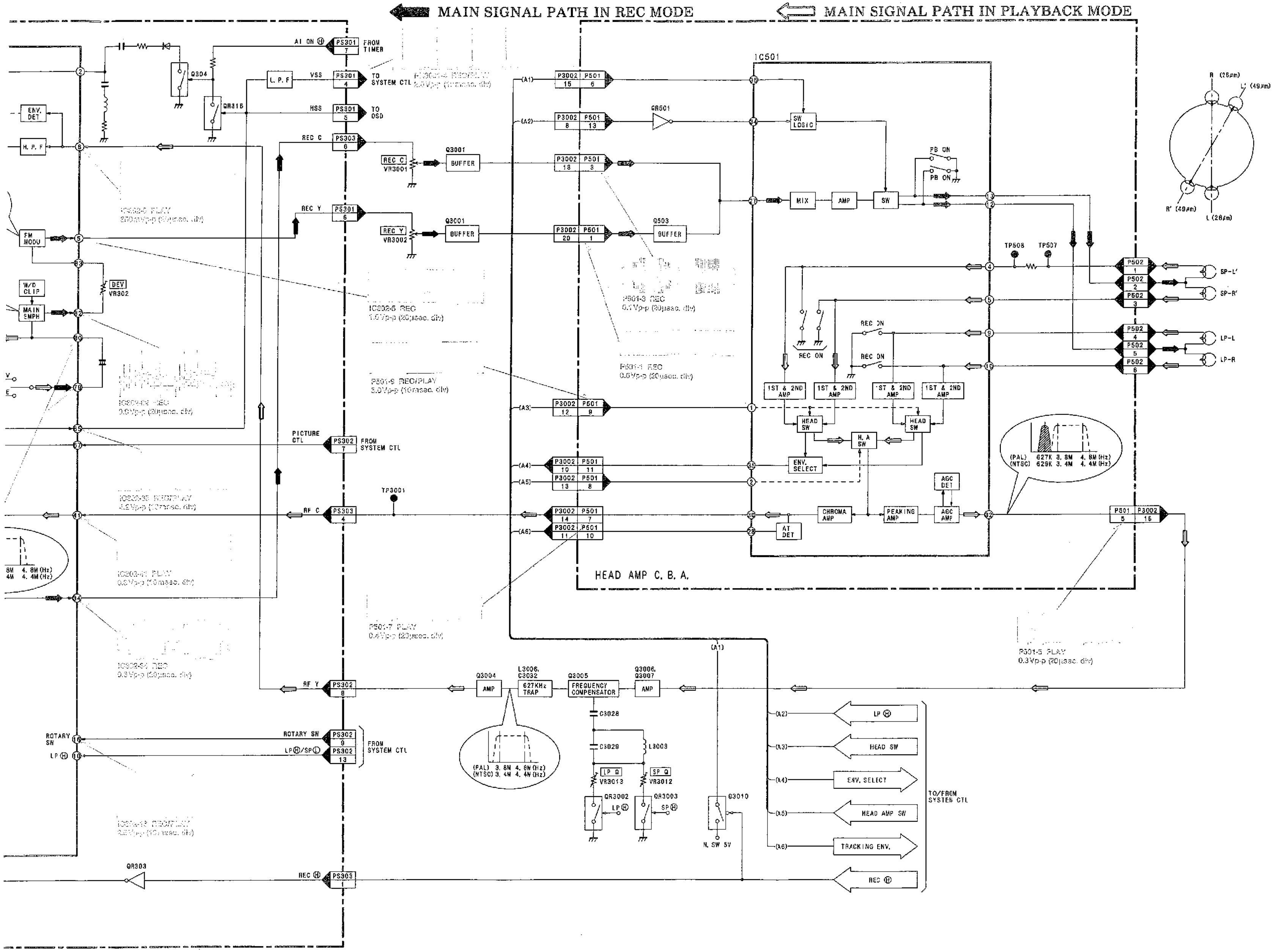
3—13

3-4 LUMINANCE & CHROMINANCE BLOCK DIAGRAM

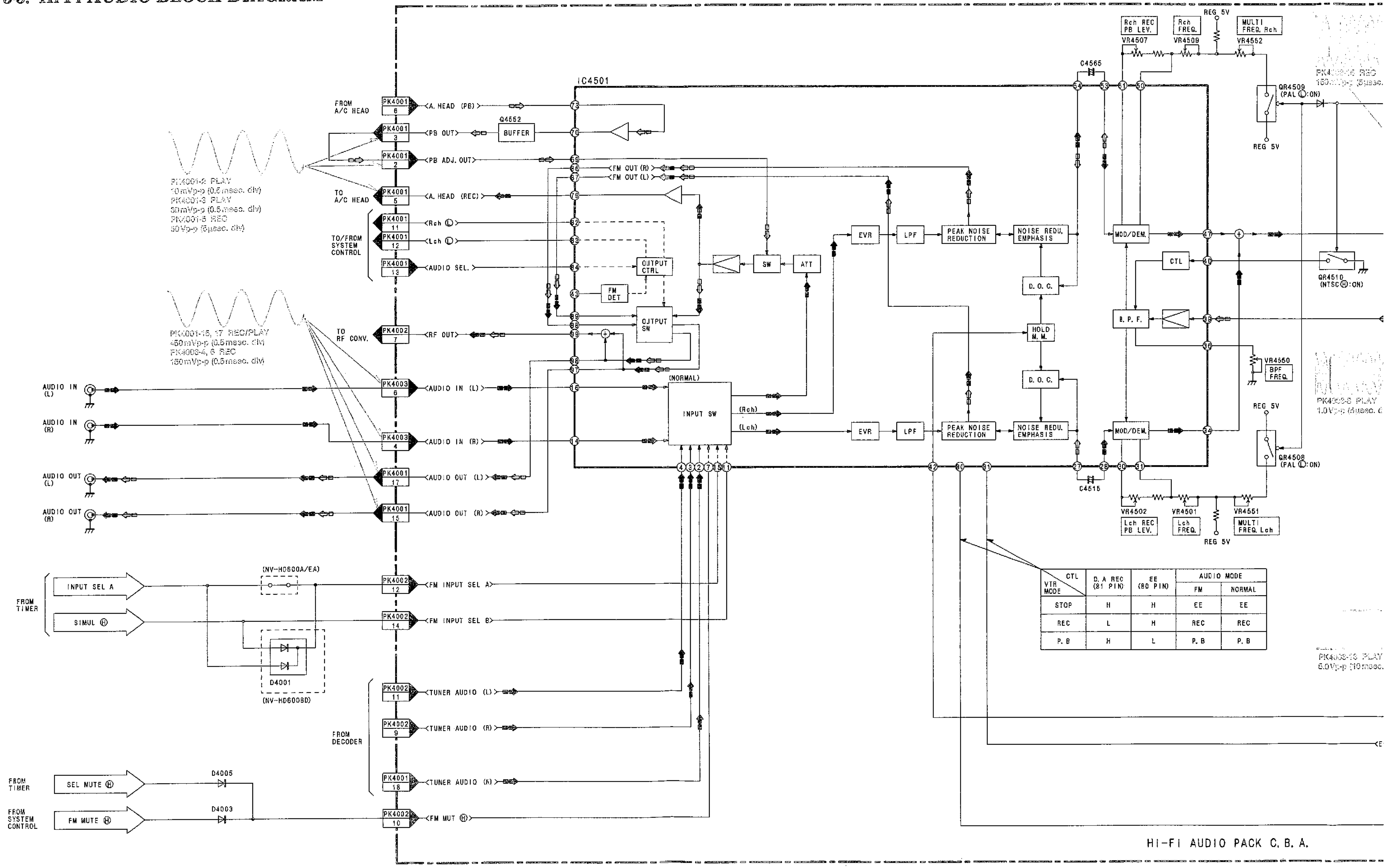

TO/FROM OSD
CHARA GEN. VIDEO IN
CHARA GEN. VIDEO OUT
Q3003
BUFFER
TL3002
JK3002
VIDEO OUT
VIDEO IN
TO RF CONVERTER
VIDEO OUT
IC3001
LINE
H
TUNER
FROM TUNER
TUNER VIDEO IN
FROM TINER
LINE Ⓗ
FROM SYSTEM CTL
V. EE Ⓛ
QR3001
FROM SYSTEM CTL
NTSC Ⓛ
QR3006
(NV-HD600BD)
FROM TINER (NV-HD600BD)
NTSC 3. 58 Ⓗ
PS301 1 VIDEO OUT
FROM SYSTEM CTL
PS302 6 ART V/H/N
PS301 3 VIDEO IN
FROM TIMER
PS302 11 PAL CONV. Ⓗ
FROM SYSTEM CTL
PS303 5 TRICK Ⓛ
PS302 5 EE Ⓗ
FROM SYSTEM CTL
PS303 3 MESECAM Ⓗ
PS302 2 NTSC Ⓛ
PS302 10 3. 58 Ⓗ
IC302-61 REC
2.0Vp-p (20μsec. div)
IC302-60 PLAY
2.0Vp-p (20μsec. div)
IC302-51 REC
1.0Vp-p (20μsec. div)
IC302-69,70,71 REC
0.4Vp-p (20μsec. div)
IC302-72 REC
350mVp-p (20μsec. div)
IC302-69,70,71 PLAY
0.4Vp-p (20μsec. div)
IC302-72 PLAY
350mVp-p (20μsec. div)
IC302-36,37 REC
0.1Vp-p (20μsec. div)
IC302 36,37 PLAY
150mVp-p (20μsec. div)
IC302-64 PLAY
0.8Vp-p (20μsec. div)
IC302-66 PLAY
150mVp-p (20μsec. div)
IC302-40 PLAY
0.4Vp-p (20μsec. div)
IC301
1H DELAY
SECAM/ MESECAM
2H DELAY
PAL
1H DELAY
NTSC
SECAM Ⓗ
PAL Ⓜ
NTSC Ⓛ
Q303
AMP
L. P. F
Q305
AMP
Q301, Q302
AMP
IC302
AGC
EE
DET
VV
AMP
DOC
YNR
Y/C MIX
B. M
H
L
THROUGH/ CONVERT Ⓗ
COMB AMP
LUMINANCE TRAP
MAIN B. P. F
P
R
AGC
ACC DET
B. GENE
BGI
P (LP)
EE Ⓗ
REG 5V
QR311
(NV-HD60DA/BD)
(NV-HD600EA)
QR310
PAL CONV. Ⓗ
4. 43Ⓗ/ 3. 58Ⓛ
QR314
(NV-HD600BD)
SECAMⒽ/ PALⓂ/NTSCⓁ
3. 58M
(NV-HD600BD)
IC881
PK801 2
PK801 6
SECAM DET
SECAM KILLER
T881
4. 4MHz TRAP
FL881
DDR SECAM PACK C. B. A.
(NV-HD600BD)
LUMINANCE & CHROMINANCE PACK C. B. A.

IC302-53	IC302-21	MAIN L.P.F.	MAIN B.P.F.	CHROMINANCE PROCESS
L (NTSC)	L (3.58) M (3.58)	3MHz L.P.F. (3.58MHz TRAP)	3.58MHz B.P.F. (3MHz TRAP)	NTSC
	H (4.43)	4MHz L.P.F. (4.43MHz TRAP)	4.43MHz B.P.F. (4MHz TRAP)	
M (PAL)	L (3.58) M (3.58)	3MHz L.P.F. (3.58MHz TRAP)	3.58MHz B.P.F. (3MHz TRAP)	PAL
	H (4.43)	4MHz L.P.F. (4.43MHz TRAP)	4.43MHz B.P.F. (4MHz TRAP)	
H (SECAM)	L (3.58) M (3.58)	—	—	MESECAM
	H (4.43)	4MHz L.P.F. (4.43MHz TRAP)	4.43MHz B.P.F. (4MHz TRAP)	


MAIN SIGNAL PATH IN REC MODE
MAI
IC302
IC501
AMP
MUTE
CLP
CLAMP
AGC
DET
EE
VV
MAIN L.P.F
CHROMINANCE TRAP
NLDE
AMP
DOC
YNR
Q305
L.P.F
AMP
Y/C MIX
B.M
THROUGH/CONVERT Ⓗ
COMB AMP
LUMINANCE TRAP
MAIN B.P.F
ACC
ACC DET
B. GENE
BGP
PHASE SHIFT CTL
+45°
0°
-45°
90°
EE ON
DET
KILL
ID
APC DET
X2
VXCO
3.58MHz
4.43MHz
(NV-HD600BD)
QR310
QR314
PAL CONV. Ⓗ
4.43Ⓗ/3.58Ⓛ
SECAMⒽ/PALⓂ/NTSCⓁ
EE Ⓗ
(dB)
(MHz) 4 4.43 (PAL) 3 3.58 (NTSC)
PIC CONT
NC
LIM
H.P.F
AMP
L.P.F
HSS
DETAIL ENPHANSOR
NLE
SUB L.P.F
FM DEM
LIM
H.P.F
ENV. DET
(PAL) 4.8
(NTSC) 4.4
(PAL) 3.8
(NTSC) 3.4
MHz
SYNC TIP
WHITE LEVEL
FM MODURATION
FM MODU
MAIN ENPHASIS
12
dB
0 100K 500K 2M Hz
W/D CLIP
MAIN EMPH
DEV VR302
630KHz B.P.F
(PAL) (NTSC)
627KHz 629KHz
630KHz
MAIN B.M
630KHz L.P.F
(PAL) 627K 3.8M 4.8M (Hz)
(NTSC) 629K 3.4M 4.4M (Hz)
5.06/4.21MHz B.P.F
SUB B.M
SUB B.M
ROTARY
DIGITAL M.M
VCO
AFC
DET
SIDE LOCK
REC Ⓛ
ROTARY SW
LP Ⓗ
QR303
AI ON Ⓗ
PS301 7 FROM TIMER
Q304
QR316
L.P.F
VSS
PS301 4 TO SYSTEM CTL
HSS
PS301 5 TO OSD
REC C
PS303 6
REC Y
PS301 6
PICTURE CTL
PS302 7 FROM SYSTEM CTL
TP3001
RF C
PS303 4
RF Y
PS302 8
ROTARY SW
PS302 9
LPⒽ/SPⓁ
PS302 13
FROM SYSTEM CTL
REC Ⓗ
PS303 1
REC C VR3001
REC Y VR3002
Q3001 BUFFER
Q3001 BUFFER
(A1) P3002 15 P501 5
(A2) P3002 8 P501 13
P3002 18 P501 3
P3002 20 P501 1
(A3) P3002 12 P501 9
(A4) P3002 10 P501 11
(A5) P3002 13 P501 8
P3002 14 P501 7
(A6) P3002 11 P501 10
QR501
Q503 BUFFER
SW LOGIC
MIX
AMP
REC ON
1ST & 2ND AMP
1ST & 2ND AMP
HEAD SW
ENV. SELECT
CHROMA AMP
AT DET
HEAD AMP C.B.A.
Q3004 AMP
L3006, C3032 627KHz TRAP
Q3005 FREQUENCY COMPENSATOR
Q3006, Q3007 AMP
C3028
C3029
L3003
LP Q VR3013
SP Q VR3012
QR3002 LP Ⓗ
QR3003 SP Ⓗ
Q3010
N.SW 5V
(PAL) 3.8M 4.8M (Hz)
(NTSC) 3.4M 4.4M (Hz)
IC302-8 PLAY
IC302-5 REC
P501-3 REC 0.1Vp-p (20μsec. div)
P501-1 REC 0.3Vp-p (20μsec. div)
P501-9 REC/PLAY 3.0Vp-p (10msec. div)
IC302-12 REC 0.8Vp-p (20μsec. div)
IC302-41 PLAY
P501-7 PLAY 0.4Vp-p (20μsec. div)
LUMINANCE & CHROMINANCE PACK C.B.A.

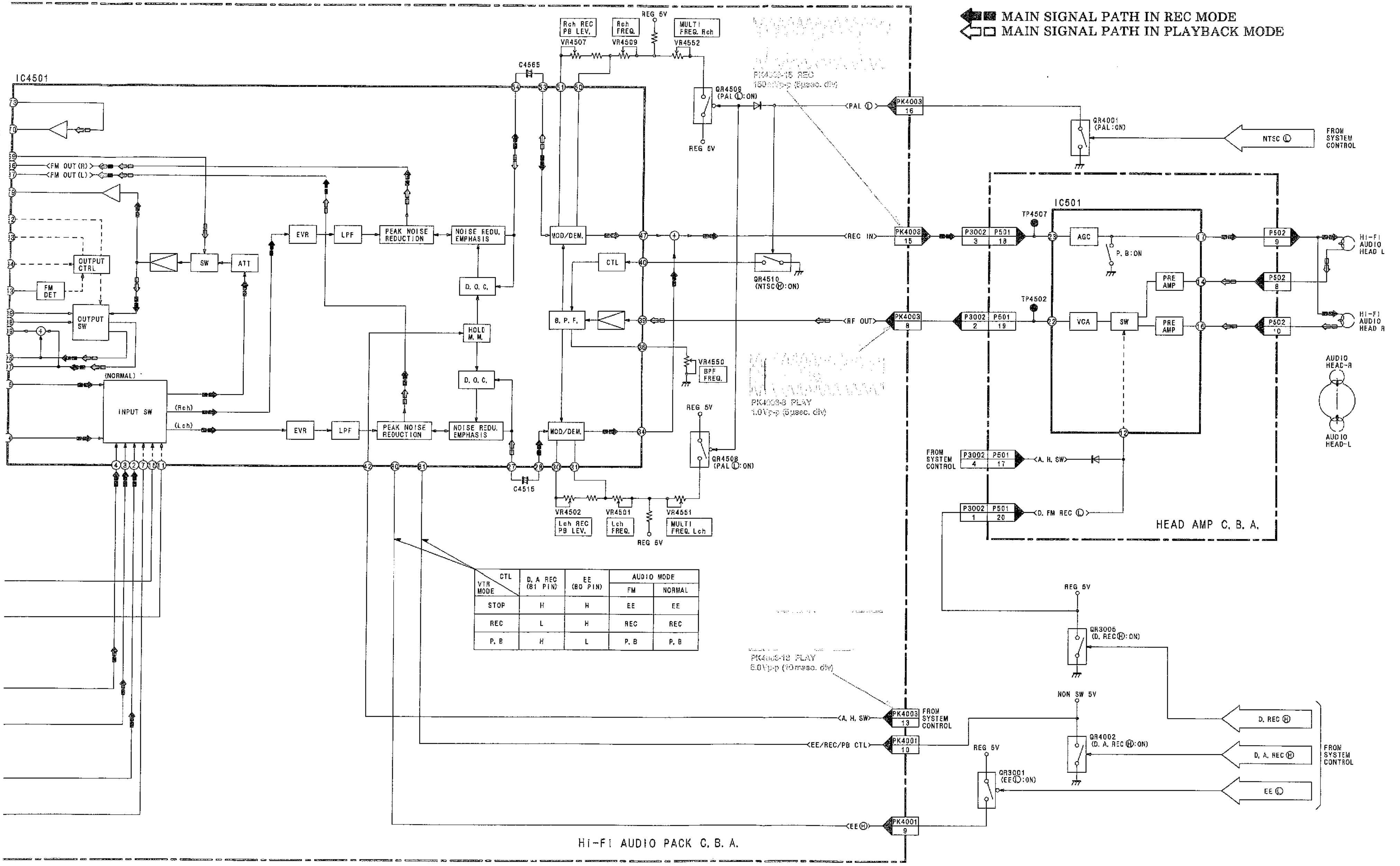

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
AI ON Ⓗ
PS301 7
FROM TIMER
VSS
PS301 4
TO SYSTEM CTL
HSS
PS301 5
TO OSD
REC C
PS303 6
REC Y
PS301 6
L. P. F
Q304
QR816
ENV. DET
H. P. F
FM MODU
W/D CLIP
MAIN EMPH
DEV
VR302
IC302-5 PLAY
IC302-5 REC
1.0Vp-p (20μsec. div)
IC302-12 REC
0.9Vp-p (20μsec. div)
P501-9 REC/PLAY
5.0Vp-p (10msec. div)
PICTURE CTL
PS302 7
FROM SYSTEM CTL
TP3001
RF C
PS303 4
IC302-41 PLAY
0.9Vp-p (10msec. div)
IC302-34 REC
0.3Vp-p (20μsec. div)
RF Y
PS302 8
ROTARY SW
PS302 9
LPⒽ/SPⓁ
PS302 13
FROM SYSTEM CTL
ROTARY SW
LP Ⓗ
QR303
REC Ⓗ
PS303 1
REC C
VR3001
Q3001
BUFFER
REC Y
VR3002
Q3C01
BUFFER
(A1)
(A2)
(A3)
(A4)
(A5)
(A6)
P3002 15
P501 6
P3002 8
P501 13
QR501
P3002 18
P501 3
P3002 20
P501 1
Q503
BUFFER
P501-3 REC
0.1Vp-p (20μsec. div)
P501-1 REC
0.9Vp-p (20μsec. div)
P3002 12
P501 9
P3002 10
P501 11
P3002 13
P501 8
P3002 14
P501 7
P3002 11
P501 10
P501-7 PLAY
0.4Vp-p (20μsec. div)
HEAD AMP C. B. A.
IC501
SW LOGIC
MIX
AMP
SW
PB ON
PB ON
TP508
TP507
REC ON
REC ON
REC ON
1ST & 2ND AMP
1ST & 2ND AMP
1ST & 2ND AMP
1ST & 2ND AMP
HEAD SW
HEAD SW
H. A SW
ENV. SELECT
AGC DET
CHROMA AMP
PEAKING AMP
AGC AMP
AT DET
(PAL) 627K 3. 8M 4. 8M (Hz)
(NTSC) 629K 3. 4M 4. 4M (Hz)
P502 1
P502 2
P502 3
P502 4
P502 5
P502 6
SP-L'
SP-R'
LP-L
LP-R
R (25μm)
L' (49μm)
R' (49μm)
L (28μm)
P501 5
P3002 16
P501-5 PLAY
0.3Vp-p (20μsec. div)
Q3004
AMP
L3006, C3032
627KHz TRAP
Q3005
FREQUENCY COMPENSATOR
Q3006, Q3007
AMP
(PAL) 3. 8M 4. 8M (Hz)
(NTSC) 3. 4M 4. 4M (Hz)
C3028
C3029
L3008
LP Ⓠ
VR3013
SP Ⓠ
VR3012
QR3002
LP Ⓗ
QR3003
SP Ⓗ
Q3010
N. SW 5V
(A1)
LP Ⓗ
HEAD SW
ENV. SELECT
HEAD AMP SW
TRACKING ENV.
REC Ⓗ
TO/FROM SYSTEM CTL
8M 4. 8M (Hz)
4M 4. 4M (Hz)

3-5. Hi-Fi AUDIO BLOCK DIAGRAM


IC4501
FROM A/C HEAD
PK4001 6 <A. HEAD (PB)>
PK4001 3 <PB OUT>
PK4001 2 <PB ADJ. OUT>
TO A/C HEAD
PK4001 5 <A. HEAD (REC)>
TO/FROM SYSTEM CONTROL
PK4001 11 <Rch Ⓛ>
PK4001 12 <Lch Ⓛ>
PK4001 13 <AUDIO SEL.>
TO RF CONV.
PK4002 7 <RF OUT>
PK4003 6 <AUDIO IN (L)>
PK4003 4 <AUDIO IN (R)>
PK4001 17 <AUDIO OUT (L)>
PK4001 15 <AUDIO OUT (R)>
PK4002 12 <FM INPUT SEL A>
PK4002 14 <FM INPUT SEL B>
FROM DECODER
PK4002 11 <TUNER AUDIO (L)>
PK4002 9 <TUNER AUDIO (R)>
PK4001 18 <TUNER AUDIO (R)>
PK4002 10 <FM MUT Ⓗ>
PK4001-2 PLAY
10mVp-p (0.5msec. div)
PK4001-3 PLAY
30mVp-p (0.5msec. div)
PK4001-5 REC
50Vp-p (5μsec. div)
PK4001-15, 17 REC/PLAY
450mVp-p (0.5msec. div)
PK4003-4, 6 REC
150mVp-p (0.5msec. div)
AUDIO IN (L)
AUDIO IN (R)
AUDIO OUT (L)
AUDIO OUT (R)
FROM TIMER
INPUT SEL A
SIMUL Ⓗ
(NV-HD600A/EA)
D4001
(NV-HD600BD)
FROM TIMER
SEL MUTE Ⓗ
FROM SYSTEM CONTROL
FM MUTE Ⓗ
D4005
D4003
Q4552
BUFFER
<FM OUT (R)>
<FM OUT (L)>
OUTPUT CTRL
FM DET
OUTPUT SW
(NORMAL)
INPUT SW
(Rch)
(Lch)
SW
ATT
EVR
LPF
PEAK NOISE REDUCTION
NOISE REDU. EMPHASIS
D. O. C.
HOLD M. M.
MOD/DEM.
CTL
B. P. F.
C4565
C4515
REG 5V
Rch REC PB LEV.
VR4507
Rch FREQ.
VR4509
MULTI FREQ. Rch
VR4552
QR4509 (PAL Ⓛ:ON)
QR4510 (NTSC Ⓗ:ON)
VR4550
BPF FREQ.
QR4508 (PAL Ⓛ:ON)
VR4502
Lch REC PB LEV.
VR4501
Lch FREQ.
VR4551
MULTI FREQ. Lch
PK4003-16 REC
150mVp-p (5μsec.
PK4003-8 PLAY
1.0Vp-p (5μsec.
PK4003-13 PLAY
5.0Vp-p (10msec.
73
70
69
66
67
79
82
83
84
43
89
88
99
98
97
16
14
4
3
2
7
15
11
42
80
81
54
53
51
50
47
40
38
36
34
27
28
30
31

CTL / VTR MODE	D. A REC (81 PIN)	EE (80 PIN)	AUDIO MODE	
			FM	NORMAL
STOP	H	H	EE	EE
REC	L	H	REC	REC
P. B	H	L	P. B	P. B

Hi-Fi AUDIO PACK C. B. A.

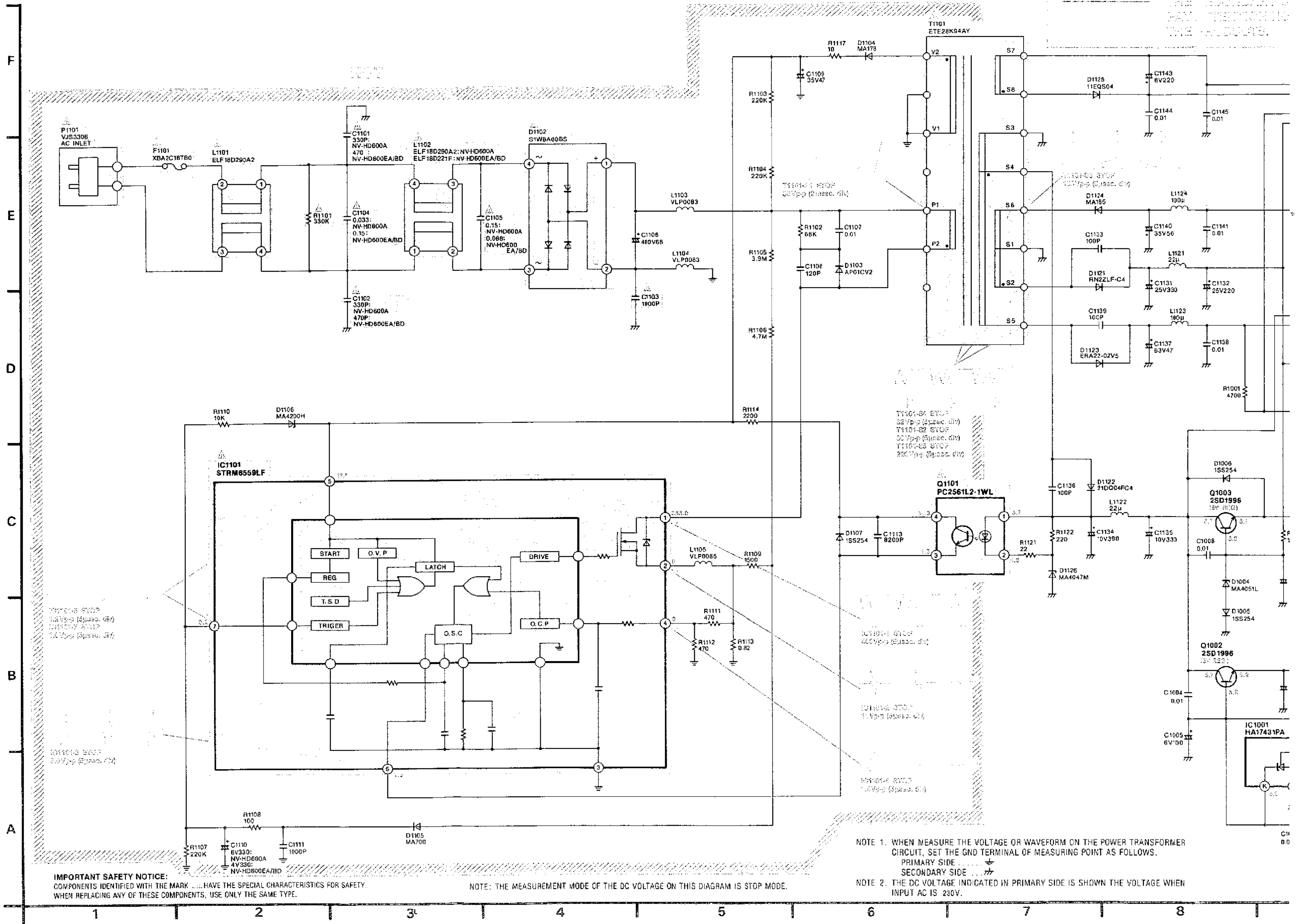

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
IC4501
INPUT SW
(NORMAL)
(Rch)
(Lch)
OUTPUT CTRL
OUTPUT SW
FM DET
SW
ATT
EVR
LPF
PEAK NOISE REDUCTION
NOISE REDU. EMPHASIS
D. O. C.
HOLD M. M.
MOD/DEM.
CTL
B. P. F.
<FM OUT (R)>
<FM OUT (L)>
Rch REC PB LEV.
Rch FREQ.
MULTI FREQ. Rch
VR4507
VR4509
VR4552
REG 5V
C4565
C4515
QR4509 (PAL Ⓛ:ON)
QR4508 (PAL Ⓛ:ON)
QR4510 (NTSC Ⓗ:ON)
VR4550
BPF FREQ.
VR4502
VR4501
VR4551
Lch REC PB LEV.
Lch FREQ.
MULTI FREQ. Lch
PK4003-15 REC
150mVp-p (5μsec. div)
PK4003-8 PLAY
1.0Vp-p (5μsec. div)
PK4003-13 PLAY
5.0Vp-p (10msec. div)
<PAL Ⓛ>
<REC IN>
<RF OUT>
<A. H. SW>
<EE/REC/PB CTL>
<EE Ⓗ>
PK4003 16
PK4003 15
PK4003 8
PK4003 13
PK4001 10
PK4001 9
FROM SYSTEM CONTROL
Hi-Fi AUDIO PACK C. B. A.
QR4001 (PAL:ON)
NTSC Ⓛ
IC501
TP4507
TP4502
P3002 3 P501 18
P3002 2 P501 19
P3002 4 P501 17
P3002 1 P501 20
AGC
P. B:ON
VCA
PRE AMP
<D. FM REC Ⓛ>
P502 9
P502 8
P502 10
HI-FI AUDIO HEAD L
HI-FI AUDIO HEAD R
AUDIO HEAD-R
AUDIO HEAD-L
HEAD AMP C. B. A.
QR3005 (D. REC Ⓗ:ON)
NON SW 5V
QR4002 (D. A. REC Ⓗ:ON)
QR3001 (EE Ⓛ:ON)
D. REC Ⓗ
D. A. REC Ⓗ
EE Ⓛ

CTL / VTR MODE	D. A REC (81 PIN)	EE (80 PIN)	AUDIO MODE	
			FM	NORMAL
STOP	H	H	EE	EE
REC	L	H	REC	REC
P. B	H	L	P. B	P. B

SECTION 4

SCHEMATIC DIAGRAMS

4-1. POWER SUPPLY SECTION IN MAIN SCHEMATIC DIAGRAM


F
E
D
C
B
A
1
2
3
4
5
6
7
8
P1101
VJS3306
AC INLET
F1101
XBA2C16TB0
L1101
ELF18D290A2
R1101
330K
C1101
330P:
NV-HD600A
470 :
NV-HD600EA/BD
C1104
0.033:
NV-HD600A
0.15:
NV-HD600EA/BD
C1102
330P:
NV-HD600A
470P:
NV-HD600EA/BD
L1102
ELF18D290A2:NV-HD600A
ELF18D221F:NV-HD600EA/BD
C1105
0.15:
NV-HD600A
0.068:
NV-HD600
EA/BD
D1102
S1WBA60BS
C1106
400V68
C1103
1000P
L1103
VLP0083
L1104
VLP0083
R1103
220K
R1104
220K
R1105
3.9M
R1106
4.7M
R1117
10
D1104
MA178
C1109
35V47
R1102
68K
C1107
0.01
C1108
120P
D1103
AP01CV2
R1114
2200
T1101
ETE28KS4AY
V2
V1
P1
P2
S7
S8
S3
S4
S6
S1
S2
S5
D1125
11EQS04
C1143
6V220
C1144
0.01
C1145
0.01
D1124
MA185
L1124
100μ
C1140
35V56
C1141
0.01
C1133
100P
D1121
RN2ZLF-C4
L1121
22μ
C1131
25V330
C1132
25V220
C1139
100P
D1123
ERA22-02V5
L1123
100μ
C1137
63V47
C1138
0.01
R1001
4700
T1101-S4 STOP
32Vp-p (5μsec. div)
T1101-S2 STOP
30Vp-p (5μsec. div)
T1101-S5 STOP
230Vp-p (5μsec. div)
R1110
10K
D1106
MA4200H
IC1101
STRM6559LF
START
O.V.P
REG
LATCH
T.S.D
TRIGER
DRIVE
O.S.C
O.C.P
L1105
VLP0085
R1109
1500
R1111
470
R1112
470
R1113
0.82
D1107
1SS254
C1113
8200P
Q1101
PC2561L2-1WL
C1136
100P
D1122
21DQ04FC4
L1122
22μ
R1122
220
R1121
22
C1134
10V390
C1135
10V330
D1126
MA4047M
D1006
1SS254
Q1003
2SD1996
C1008
0.01
D1004
MA4051L
D1005
1SS254
Q1002
2SD1996
C1004
0.01
C1005
6V100
IC1001
HA17431PA
K
R1108
100
R1107
220K
C1110
6V330:
NV-HD600A
4V330:
NV-HD600EA/BD
C1111
1000P
D1105
MA700

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

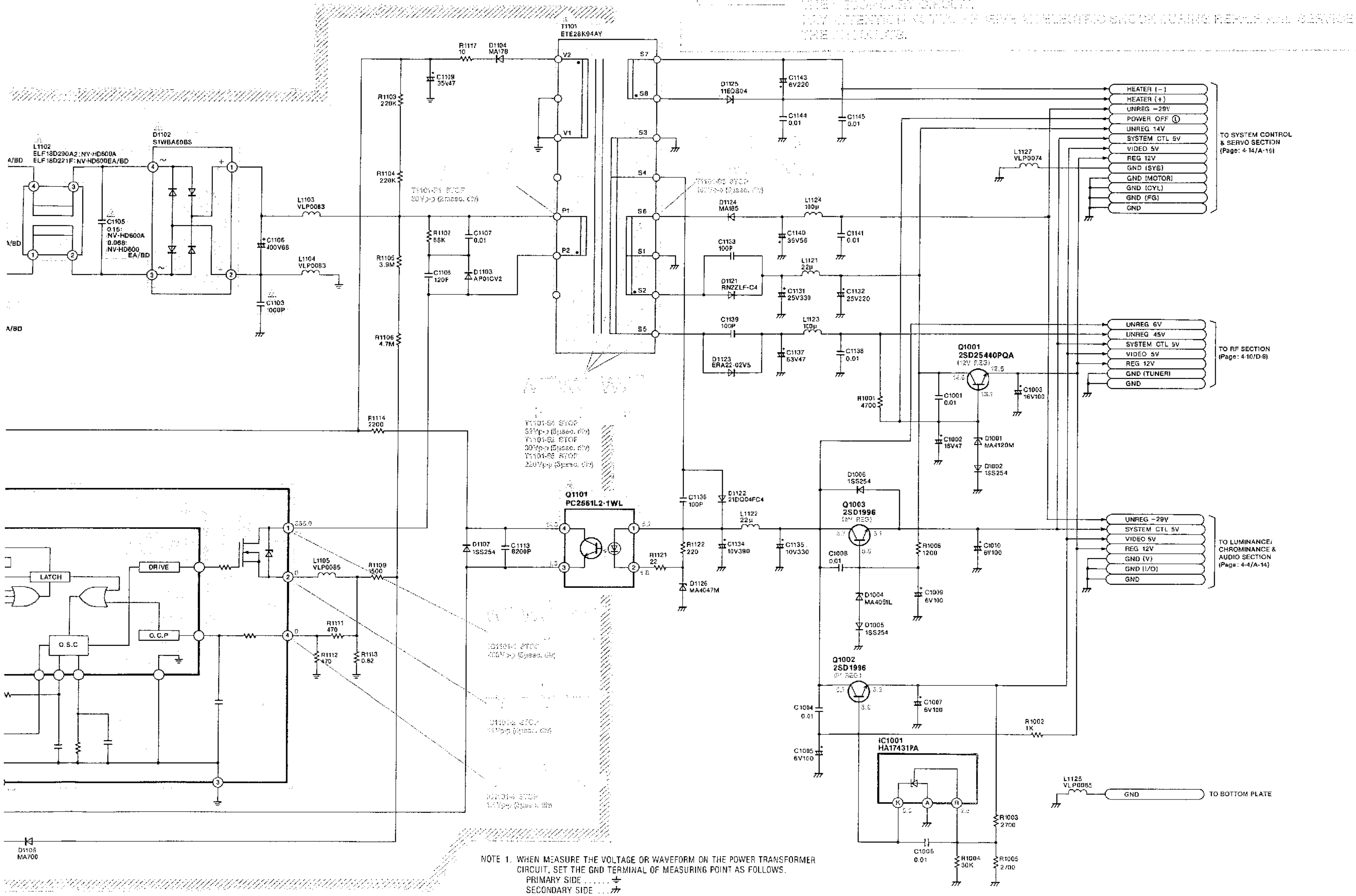
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE ...... ⏚
SECONDARY SIDE ... ⏚

NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 230V.

[N SCHEMATIC DIAGRAM

[illegible] THE SHADED AREA INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO BE GIVEN AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE CIRCUITS.


L1102
ELF18D290A2: NV-HD600A
ELF18D221F: NV-HD600EA/BD
D1102
S1WBA60BS
C1105
0.15: NV-HD600A
0.068: NV-HD600 EA/BD
C1106
400V68
C1103
1000P
L1103
VLP0083
L1104
VLP0083
R1117
10
D1104
MA178
C1108
35V47
R1103
220K
R1104
220K
R1105
3.9M
R1106
4.7M
R1102
68K
C1107
0.01
C1108
120F
D1103
AP01CV2
R1114
2200
T1101
ETE28K94AY
V2
V1
P1
P2
S7
S8
S3
S4
S6
S1
S2
S5
T1101-P1 STOP
50Vp-p (5μsec. div)
T1101-S6 STOP
18Vp-p (5μsec. div)
T1101-S4 STOP
33Vp-p (5μsec. div)
T1101-S2 STOP
50Vp-p (5μsec. div)
T1101-S5 STOP
220Vp-p (5μsec. div)
D1125
11EQS04
C1143
6V220
C1144
0.01
C1145
0.01
D1124
MA185
C1140
35V56
L1124
100μ
C1141
0.01
C1133
100P
D1121
RN2ZLF-C4
L1121
22μ
C1131
25V330
C1132
25V220
C1139
100P
D1123
ERA22-02V5
L1123
100μ
C1137
63V47
C1138
0.01
L1127
VLP0074
HEATER (−)
HEATER (+)
UNREG −29V
POWER OFF ①
UNREG 14V
SYSTEM CTL 5V
VIDEO 5V
REG 12V
GND (SYS)
GND (MOTOR)
GND (CYL)
GND (FG)
GND
TO SYSTEM CONTROL & SERVO SECTION (Page: 4-14/A-16)
UNREG 6V
UNREG 45V
SYSTEM CTL 5V
VIDEO 5V
REG 12V
GND (TUNER)
GND
TO RF SECTION (Page: 4-10/D-8)
Q1001
2SD25440PQA
(12V REG)
12.5
13.3
C1001
0.01
C1003
16V100
R1001
4700
C1002
16V47
D1001
MA4120M
D1002
1SS254
Q1101
PC2561L2-1WL
D1107
1SS254
C1113
8200P
C1136
100P
D1122
21DQ04FC4
L1122
22μ
R1122
220
C1134
10V390
C1135
10V330
R1121
22
D1126
MA4047M
D1006
1SS254
Q1003
2SD1996
(5V REG)
C1008
0.01
R1006
1200
C1010
6V100
C1009
6V100
D1004
MA4051L
D1005
1SS254
Q1002
2SD1996
(5V REG)
C1004
0.01
C1085
6V100
C1007
6V100
R1002
1K
IC1001
HA17431PA
K
A
R
C1005
0.01
R1003
2700
R1004
30K
R1005
2700
UNREG −29V
SYSTEM CTL 5V
VIDEO 5V
REG 12V
GND (V)
GND (I/O)
GND
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION (Page: 4-4/A-14)
L1125
VLP0085
GND
TO BOTTOM PLATE
LATCH
DRIVE
O.S.C
O.C.P
L1105
VLP0085
R1109
1500
R1111
470
R1112
470
R1113
0.82
Q1101-1 STOP
400Vp-p (5μsec. div)
Q1101-2 STOP
1Vp-p (5μsec. div)
Q1101-4 STOP
1Vp-p (5μsec. div)
D1105
MA700

NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE .... ⏚
SECONDARY SIDE .... ⫽

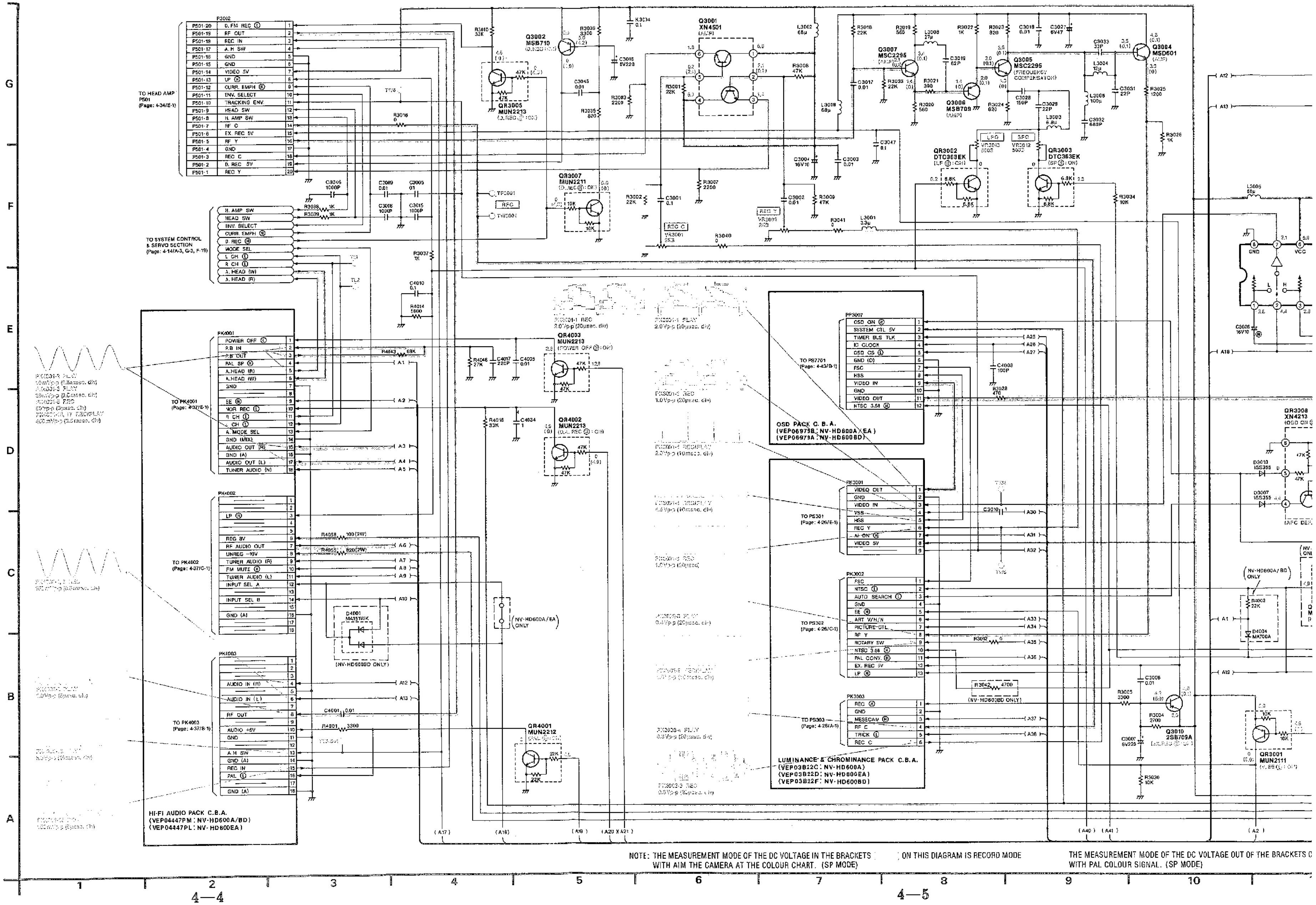
NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 230V.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-2 LUMINANCE/CHROMINANCE & AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE


P3002
TO HEAD AMP P501 (Page: 4-34/E-1)
TO SYSTEM CONTROL & SERVO SECTION (Page: 4-14/A-3, G-3, F-15)
PK4001
TO PK4001 (Page: 4-37/E-1)
PK4002
TO PK4002 (Page: 4-37/C-1)
PK4003
TO PK4003 (Page: 4-37/B-1)
HI-FI AUDIO PACK C.B.A.
(VEP04447PM : NV-HD600A/BD)
(VEP04447PL : NV-HD600EA)
Q3002 MSB710
QR3005 MUN2213
QR3007 MUN2211
Q3001 XN4501
Q3007 MSC2295
Q3006 MSB709
Q3005 MSC2295
Q3004 MSD601
QR3002 DTC363EK
QR3003 DTC363EK
QR4003 MUN2213
QR4002 MUN2213
QR4001 MUN2212
D4001 MA151WK
(NV-HD600BD ONLY)
(NV-HD600A/EA) ONLY
PP5007
TO P57701 (Page: 4-43/B-1)
OSD PACK C.B.A.
(VEP06979B : NV-HD600A/EA)
(VEP06979A : NV-HD600BD)
PK3001
TO PS301 (Page: 4-26/E-1)
PK3002
TO PS302 (Page: 4-26/C-1)
PK3003
TO PS303 (Page: 4-26/A-1)
LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP03B22C : NV-HD600A)
(VEP03B22D : NV-HD600EA)
(VEP03B22F : NV-HD600BD)
Q3010 2SB709A
QR3001 MUN2111
QR3008 XN4213
(NV-HD600A/BD) ONLY
D4004 MA700A
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10

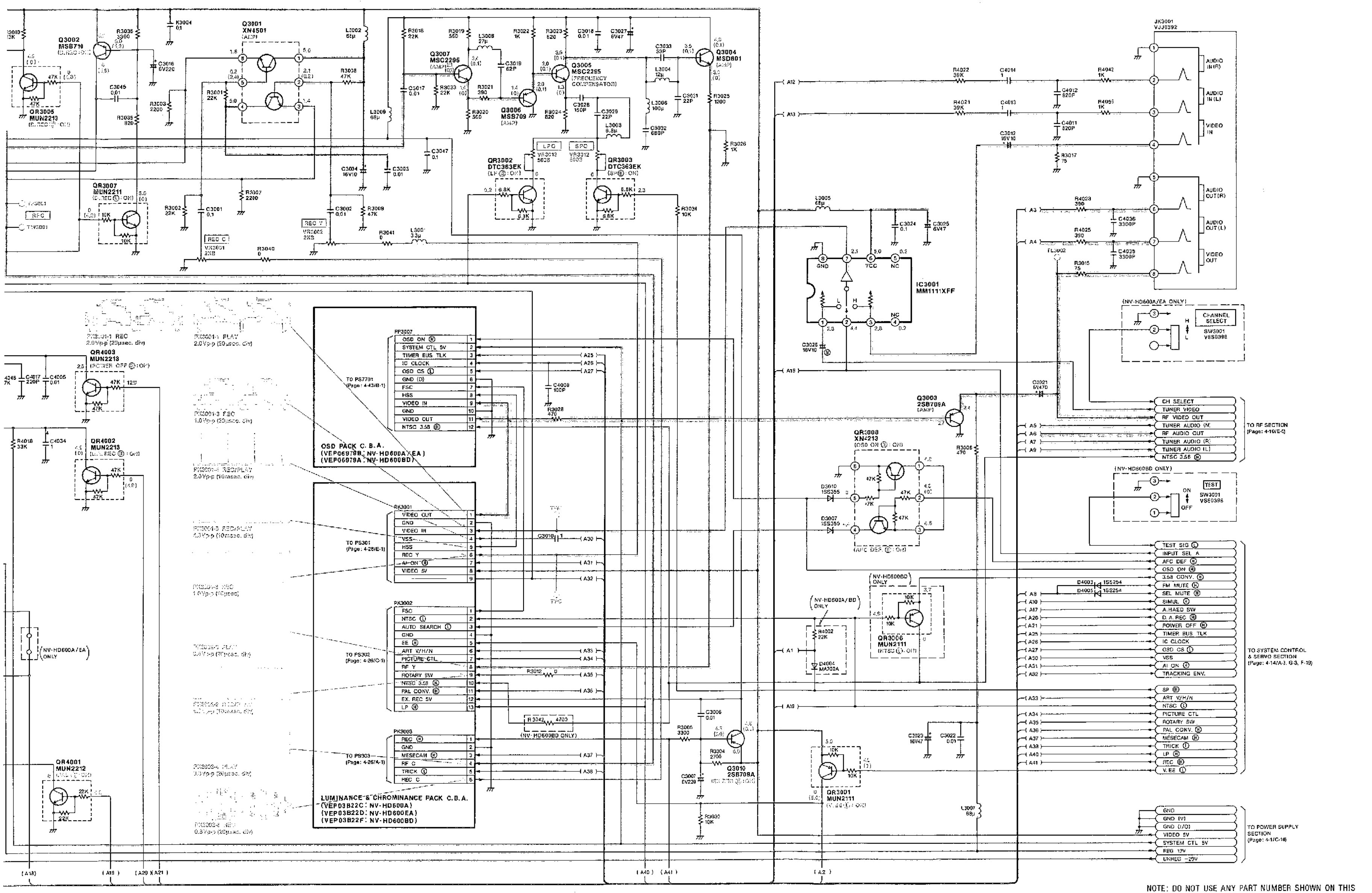
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH AIM THE CAMERA AT THE COLOUR CHART. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ( ) WITH PAL COLOUR SIGNAL. (SP MODE)

N IN MAIN SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



Q3002 MSB710
QR3005 MUN2213
Q3001 XN4501 (AMP)
Q3007 MSC2295 (AMP)
Q3006 MSB709 (AMP)
Q3005 MSC2295 (FREQUENCY COMPENSATOR)
Q3004 MSD601 (AMP)
QR3002 DTC363EK
QR3003 DTC363EK
QR3007 MUN2211
QR4003 MUN2213
QR4002 MUN2213
QR4001 MUN2212
IC3001 MM1111XFF
Q3003 2SB709A (AMP)
QR3008 XN4213
QR3006 MUN2111
Q3010 2SB709A
QR3001 MUN2111
JK3001 VJJ0392
AUDIO IN(R)
AUDIO IN(L)
VIDEO IN
AUDIO OUT(R)
AUDIO OUT(L)
VIDEO OUT
CHANNEL SELECT
SW3001 VSS0398
TEST
(NV-HD600A/EA ONLY)
(NV-HD600BD ONLY)
OSD PACK C.B.A. (VEP06978B : NV-HD600A/EA) (VEP06978A : NV-HD600BD)
TO PS7701 (Page: 4-43(B-1))
TO PS301 (Page: 4-26(E-1))
TO PS302 (Page: 4-26(C-1))
TO PS303 (Page: 4-26(A-1))
LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03B22C : NV-HD600A) (VEP03B22D : NV-HD600EA) (VEP03B22F : NV-HD600BD)
CH SELECT
TUNER VIDEO
RF VIDEO OUT
TUNER AUDIO IN
RF AUDIO OUT
TUNER AUDIO (R)
TUNER AUDIO (L)
NTSC 3.58
TO RF SECTION (Page: 4-10(E-5))
TEST SIG
INPUT SEL A
AFC DEF
OSD ON
3.58 CONV.
FM MUTE
SEL MUTE
SIMUL
A.HAED SW
D.A.REC
POWER OFF
TIMER BUS TLK
IC CLOCK
OSD CS
VSS
AI ON
TRACKING ENV.
TO SYSTEM CONTROL & SERVO SECTION (Page: 4-14(A-3, G-3, F-10))
SP
ART V/H/N
NTSC
PICTURE CTL
ROTARY SW
PAL CONV.
MESECAM
TRICK
LP
REC
V.EE
GND
GND (V)
GND (I/O)
VIDEO 5V
SYSTEM CTL 5V
REG 12V
UNREG -29V
TO POWER SUPPLY SECTION (Page: 4-1(C-14))
5
6
7
8
9
10
11
12
13
14

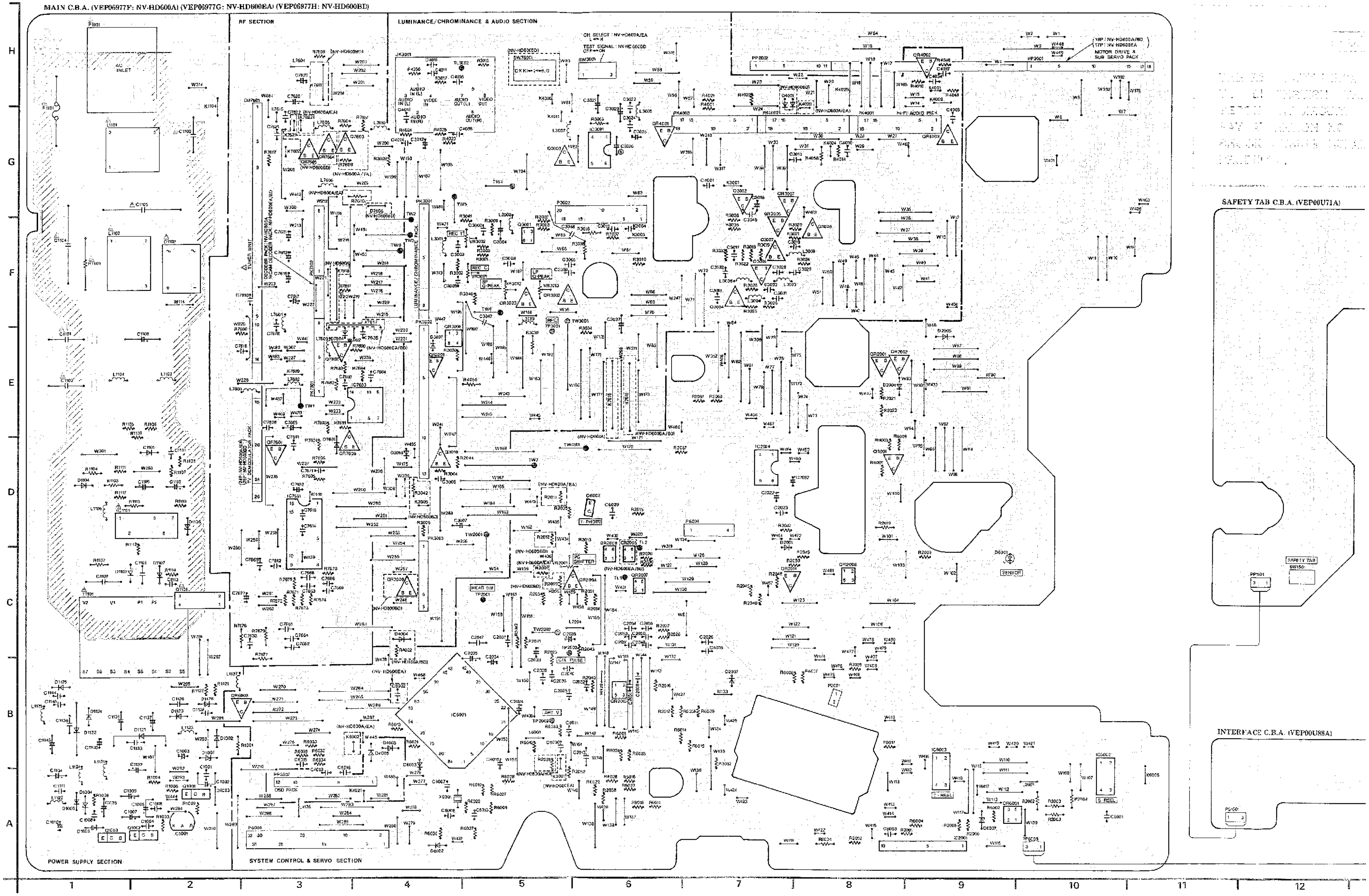
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH AIM THE CAMERA AT THE COLOUR CHART. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

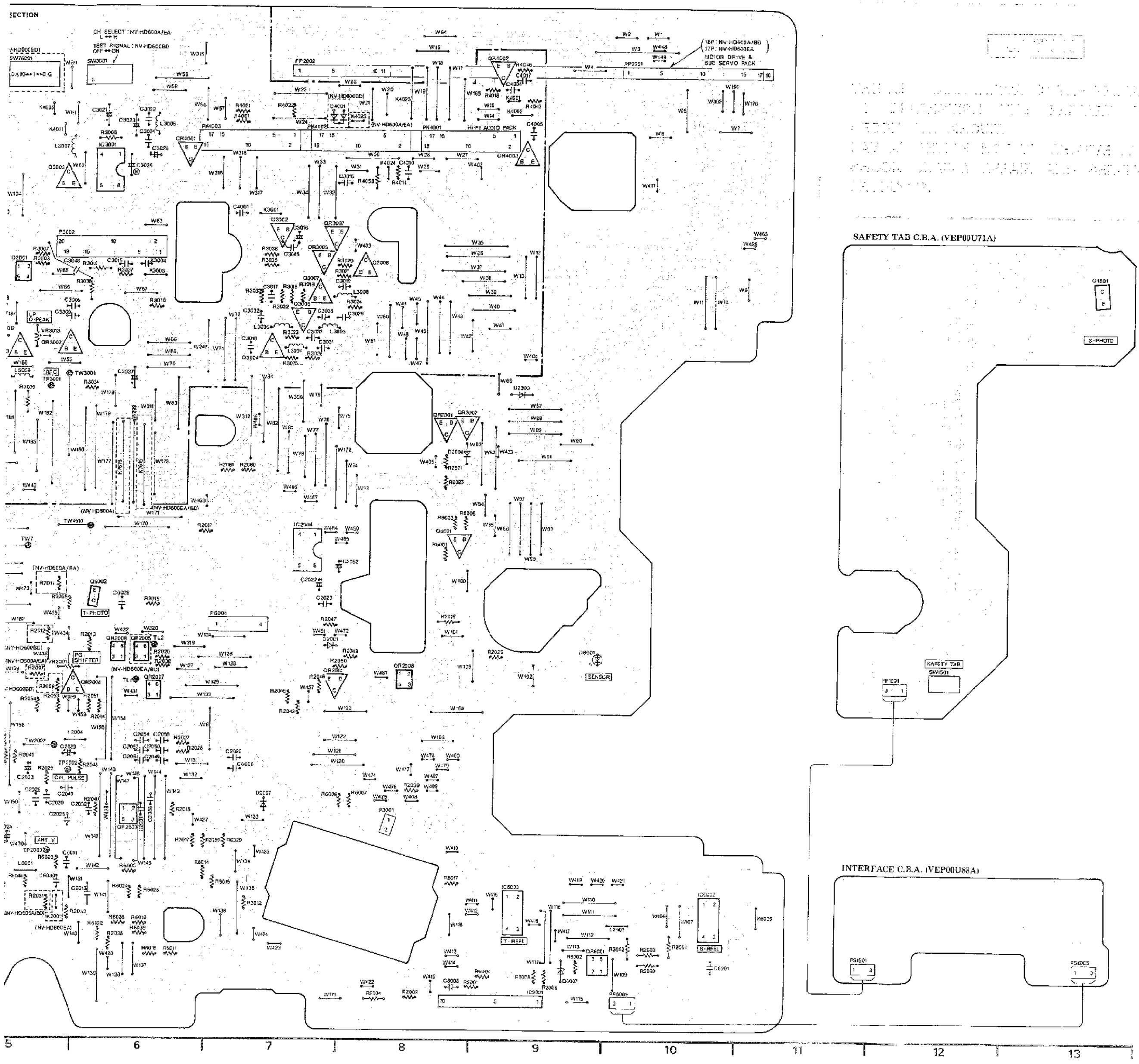
4-3 MAIN C B A (VEP06977F: NV-HD600A) (VEP06977G: NV-HD600EA) (VEP06977H: NV-HD600BD)

MAIN C.B.A. (VEP06977F: NV-HD600A) (VEP06977G: NV-HD600EA) (VEP06977H: NV-HD600BD)



RF SECTION
LUMINANCE/CHROMINANCE & AUDIO SECTION
POWER SUPPLY SECTION
SYSTEM CONTROL & SERVO SECTION
SAFETY TAB C.B.A. (VEP00U71A)
INTERFACE C.B.A. (VEP00U88A)
AC INLET
TUNER UNIT
LUMINANCE/CHROMINANCE PACK
HI-FI AUDIO PACK
MOTOR DRIVE & SUB SERVO PACK
OSD PACK
IC6001
CH SELECT : NV-HD600A/EA L ↔ H
TEST SIGNAL : NV-HD600BD OFF ↔ ON
SENSOR
SAFETY TAB
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

NV-HD600EA) (VEP06977H: NV-HD600BD)


SECTION
CH SELECT: NV-HD600A/EA
TEST SIGNAL: NV-HD600BD
SW3001
FP2002
PP2001
(16P: NV-HD600A/BD)
(17P: NV-HD600EA)
MOTOR DRIVE & SUB SERVO PACK
HI-FI AUDIO PACK
PK4001
PK4003
IC3001
IC2004
TW3001
TW4510
TW7
T-PHOTO
FG SHUTTER
CTL PULSE
(NV-HD600A/EA)
(NV-HD600BD)
SENSOR
S-PHOTO
S-REEL
T-REEL
SAFETY TAB C.B.A. (VEP0U71A)
SAFETY TAB
SW1501
PS1501
INTERFACE C.B.A. (VEP00U88A)
PS6005
5
6
7
8
9
10
11
12
13

MAIN C B A ADDRESS INFORMATION

POWER SUPPLY SECTION	
Transistor	
Q1001	A-2
Q1002	A-2
Q1003	A-1
Q1101	C-2
Integrated Circuit	
IC1001	A-2
IC1101	D-2

ADDRESS INFORMATION

LUMINANCE/ CHROMINANCE & AUDIO SECTION	
Transistor	
Q3001	F-5
Q3002	G-7
Q3003	G-5
Q3004	F-7
Q3005	F-7
Q3006	F-8
Q3007	F-7
Q3010	D-4
Transistor & Resistor	
QR3001	E-4
QR3002	F-5
QR3003	F-5
QR3005	F-7
QR3006	C-3
QR3007	G-7
QR3008	E-4
QR4001	G-6
QR4002	H-9
QR4003	G-9
Integrated Circuit	
IC3001	G-6
Test Point	
TL1	C-6
TL2	C-6
TL3002	H-4
TP3001	E-5
TW4	Q-5
TW5	Q-4
TW6	F-5
TW3001	F-5
TW4510	D-5
Adjustment	
VR3001	F-5
VR3002	F-5
VR3012	F-5
VR3013	F-5
Connector	
P3002	G-6
PK3001	F-4
PK3002	E-4
PK3003	C-4
PP3007	A-3
PK4001	G-8
PK4002	G-7
PK4003	G-7

ADDRESS INFORMATION

SYSTEM CONTROL & SERVO SECTION	
Transistor	
Q1501	F-13
Q6001	D-8
Q6002	D-6
Transistor & Resistor	
QR2001	E-8
QR2002	E-8
QR2003	B-6
QR2004	C-5
QR2005	C-6
QR2006	C-6
QR2007	C-6
QR2008	C-8
QR2014	C-7
QR6001	A-9
QR6003	B-3
Integrated Circuit	
IC2001	A-9
IC2004	D-7
IC6001	B-4
IC6002	B-10
IC6003	B-9
Test Point	
TP2001	C-5
TP2002	C-5
TP2009	B-5
TW7	D-5
TW2001	D-5
TW2002	C-5
Adjustment	
VR2001	C-5
Connector	
P2001	B-8
P6001	A-3
P6004	D-7
PP1501	C-12
PP2001	H-10
PP2002	H-7
PP6005	A-10
PS1501	A-11
PS6005	A-13

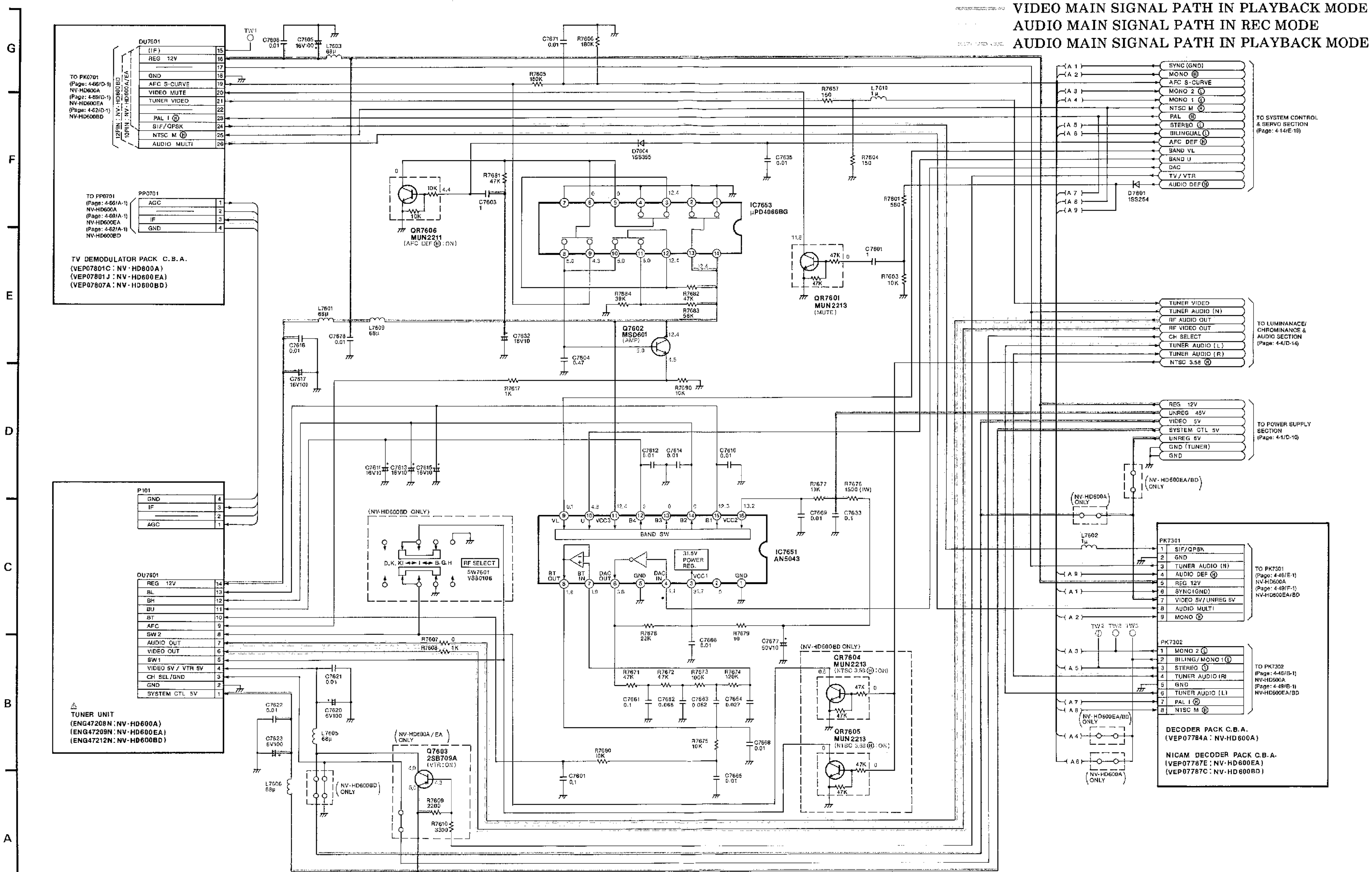
ADDRESS INFORMATION

RF SECTION	
Transistor	
Q7602	E-3
Q7603	G-3
Transistor & Resistor	
QR7601	D-3
QR7604	G-3
QR7605	G-3
QR7606	D-3
Integrated Circuit	
IC7651	D-3
IC7653	E-4
Test Point	
TW1	E-3
TW2	G-2
TW3	F-4
TW8	F-4
Connector	
DU7601	G-3
PK7301	E-3
PK7302	F-3

ADDRESS INFORMATION

4-4. RF SECTION IN MAIN SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE


DU7601
(IF) 15
REG 12V 16
17
GND 18
AFC S-CURVE 19
VIDEO MUTE 20
TUNER VIDEO 21
22
PAL I Ⓗ 23
SIF/QPSK 24
NTSC M Ⓗ 25
AUDIO MULTI 26
12PIN : NV-HD600BD
10PIN : NV-HD600A/EA
TO PK0701 (Page: 4-66/D-1) NV-HD600A (Page: 4-69/D-1) NV-HD600EA (Page: 4-62/D-1) NV-HD600BD
PP0701
AGC 1
2
IF 3
GND 4
TO PP0701 (Page: 4-66/A-1) NV-HD600A (Page: 4-69/A-1) NV-HD600EA (Page: 4-62/A-1) NV-HD600BD
TV DEMODULATOR PACK C.B.A.
(VEP07801C : NV-HD600A)
(VEP07801J : NV-HD600EA)
(VEP07807A : NV-HD600BD)
TW1
C7606 0.01
C7605 16V100
L7603 68μ
C7671 0.01
R7606 180K
R7605 180K
R7657 150
L7610 1μ
D7604 1SS355
C7635 0.01
R7604 150
R7681 47K
C7603 1
10K
10K
4.4
0
QR7606 MUN2211 (AFC DEF Ⓗ : ON)
IC7653 μPD4066BG
12.4
5.0
4.3
5.0
5.0
12.4
12.4
R7684 39K
R7682 47K
R7683 56K
Q7602 MSD601 (AMP)
12.4
5.0
4.5
C7604 0.47
C7632 16V10
L7601 68μ
L7609 68μ
C7678 0.01
C7616 0.01
C7617 16V100
R7617 1K
R7690 10K
11.8
47K
47K
QR7601 MUN2213 (MUTE)
C7601 1
R7601 560
R7603 10K
D7801 1SS254
(A 1) (A 2) (A 3) (A 4) (A 5) (A 6) (A 7) (A 8) (A 9)
SYNC (GND)
MONO Ⓗ
AFC S-CURVE
MONO 2 Ⓛ
MONO 1 Ⓛ
NTSC M Ⓗ
PAL Ⓗ
STEREO Ⓛ
BILINGUAL Ⓛ
AFC DEF Ⓗ
BAND VL
BAND U
DAC
TV/VTR
AUDIO DEF Ⓗ
TO SYSTEM CONTROL & SERVO SECTION (Page: 4-14/E-19)
TUNER VIDEO
TUNER AUDIO (N)
RF AUDIO OUT
RF VIDEO OUT
CH SELECT
TUNER AUDIO (L)
TUNER AUDIO (R)
NTSC 3.58 Ⓗ
TO LUMINANACE/ CHROMINANCE & AUDIO SECTION (Page: 4-4/D-14)
REG 12V
UNREG 45V
VIDEO 5V
SYSTEM CTL 5V
UNREG 6V
GND (TUNER)
GND
TO POWER SUPPLY SECTION (Page: 4-1/D-10)
(NV-HD600EA/BD ONLY)
(NV-HD600A ONLY)
L7602 1μ
P101
GND 4
IF 3
2
AGC 1
DU7601
REG 12V 14
BL 13
BH 12
BU 11
BT 10
AFC 9
SW 2 8
AUDIO OUT 7
VIDEO OUT 6
SW 1 5
VIDEO 5V / VTR 5V 4
CH SEL/GND 3
GND 2
SYSTEM CTL 5V 1
⚠ TUNER UNIT
(ENG47208N : NV-HD600A)
(ENG47209N : NV-HD600EA)
(ENG47212N : NV-HD600BD)
C7611 16V10
C7613 16V10
C7615 16V10
(NV-HD600BD ONLY)
D,K, KI ◂▸ I ◂▸ B,G,H
RF SELECT
SW7601 VSS0106
R7607 0
R7608 1K
C7621 0.01
C7620 6V100
C7622 0.01
C7623 6V100
L7605 68μ
L7606 68μ
(NV-HD600BD ONLY)
(NV-HD600A/EA ONLY)
Q7603 2SB709A (VTR : ON)
4.9
5.0
4.3
R7609 2200
R7610 3300
C7612 0.01
C7614 0.01
C7616 0.01
VL 9
U 10
VCC3 11
B4 12
B3 13
B2 14
B1 15
VCC2 16
BAND SW
31.5V POWER REG.
BT OUT 8
BT IN 7
DAC OUT 6
GND 5
DAC IN 4
VCC1 3
2
GND 1
IC7651 AN5043
R7677 10K
R7676 1500 (1W)
C7669 0.01
C7633 0.1
R7678 22K
C7666 0.01
R7679 10
C7677 50V10
R7671 47K
R7672 47K
R7673 100K
R7674 120K
C7661 0.1
C7662 0.068
C7663 0.082
C7664 0.027
R7675 10K
C7668 0.01
R7680 10K
C7601 0.1
C7665 0.01
(NV-HD600BD ONLY)
QR7604 MUN2213 (NTSC 3.58 Ⓗ : ON)
QR7605 MUN2213 (NTSC 3.58 Ⓗ : ON)
47K
TW2 TW3 TW5
PK7301
1 SIF/QPSK
2 GND
3 TUNER AUDIO (N)
4 AUDIO DEF Ⓗ
5 REG 12V
6 SYNC (GND)
7 VIDEO 5V/UNREG 6V
8 AUDIO MULTI
9 MONO Ⓗ
TO PK7301 (Page: 4-46/E-1) NV-HD600A (Page: 4-49/F-1) NV-HD600EA/BD
PK7302
1 MONO 2 Ⓛ
2 BILING/MONO 1 Ⓛ
3 STEREO Ⓛ
4 TUNER AUDIO (R)
5 GND
6 TUNER AUDIO (L)
7 PAL I Ⓗ
8 NTSC M Ⓗ
TO PK7302 (Page: 4-46/B-1) NV-HD600A (Page: 4-49/B-1) NV-HD600EA/BD
DECODER PACK C.B.A.
(VEP07784A : NV-HD600A)
NICAM DECODER PACK C.B.A.
(VEP07787E : NV-HD600EA)
(VEP07787C : NV-HD600BD)
G
F
E
D
C
B
A

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASJREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

1 2 3 4 5 6 7 8 9 10

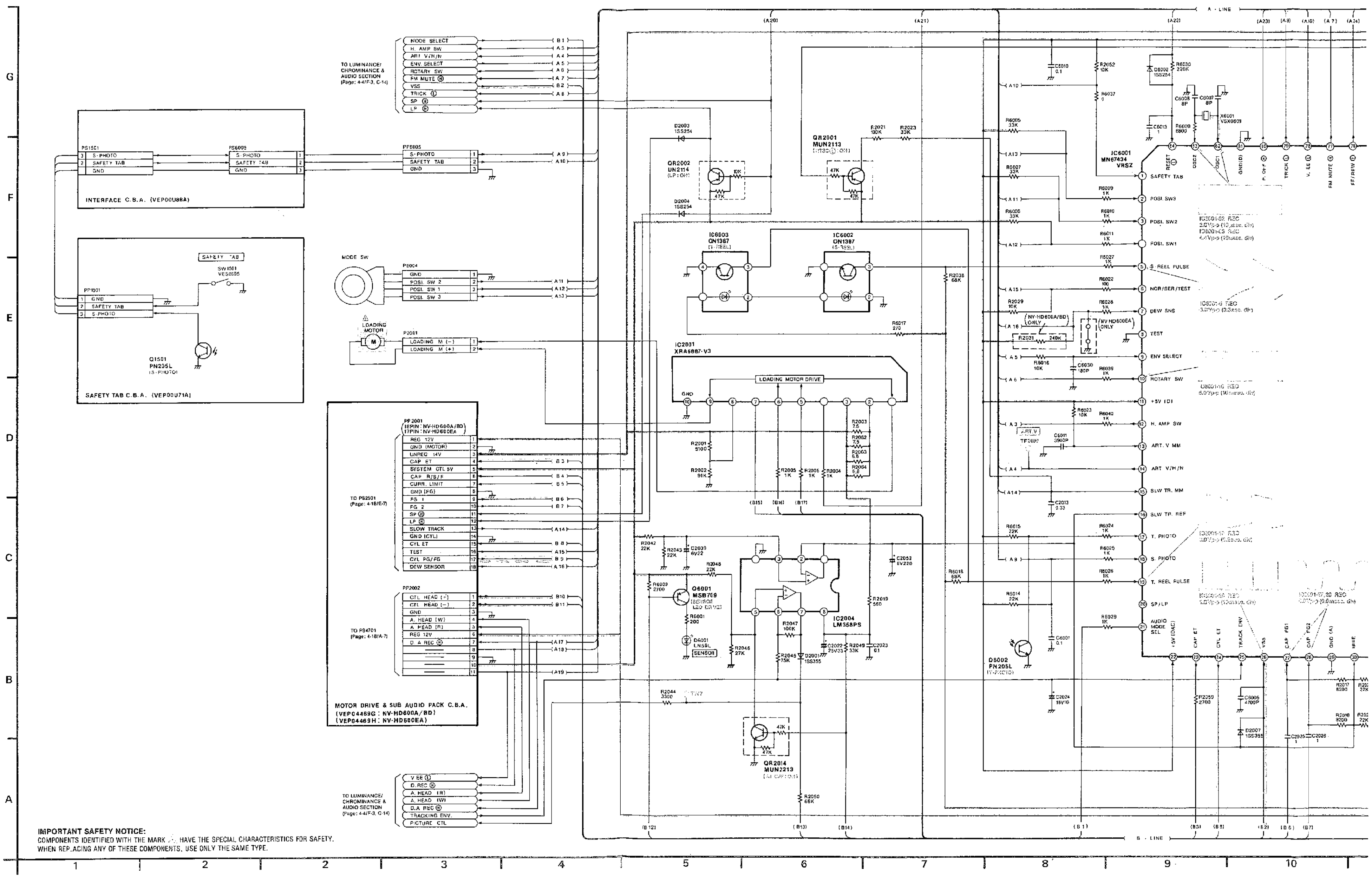
SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

REF. NO.	IC2001										IC2004									
MODE	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8		
STOP	0.1	13.8	13.8	0	0	0	7.2	9.0	0.1	0	2.5	2.5	2.5	0	2.7	2.7	3.7	13.2		
PLAY	0.1	13.7	13.7	0	0	0	7.3	8.9	0.2	0	2.5	2.5	2.5	0	2.7	2.7	2.2	13.1		
REC	0.1	13.7	13.7	0	0	0	7.3	8.9	0.1	0	2.5	2.5	2.5	0	2.7	2.7	4.6	13.0		
F.F	0.1	13.6	13.6	0	0	0	13.6	8.9	0.1	0	2.5	2.5	2.5	0	2.7	2.7	3.3	13.0		
REW	0.1	13.6	13.6	0	0	0	13.6	8.9	0.1	0	2.5	2.5	2.5	0	2.7	2.7	4.0	13.0		
REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	4.9	0	0	4.9	4.9	0	0	4.7	5.0	5.0	0	0.1	0	0	2.5	4.9	4.7	0.1	0
PLAY	0	4.7	0	0	4.9	4.9	0	0	4.7	4.9	4.9	0	0.1	0	0	2.5	4.9	4.9	4.9	0
REC	0	4.9	0	0	4.9	4.9	0	0	0	4.9	4.9	0	0.1	0	0	2.5	4.9	4.9	4.9	0
F.F	0	4.9	4.9	0	3.3	4.9	0	0	3.2	4.9	4.9	0	0.1	0	0	2.5	4.9	4.6	2.5	0
REW	0	4.9	4.9	0	2.8	4.9	0	0	2.9	4.9	4.9	0	0.1	0	0	2.5	4.9	4.9	2.6	0
REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	4.9	5.0	0.2	2.4	1.4	2.5	2.5	2.5	0	2.5	2.4	2.6	4.9	0	0	0	2.5	2.5	0	2.4
PLAY	4.9	4.9	2.5	2.4	3.2	2.5	2.5	2.5	0	2.5	2.6	2.5	4.9	0	0	0	2.5	2.5	0	2.7
REC	4.9	4.9	2.5	2.4	0.8	2.5	2.5	2.5	0	2.5	2.4	2.6	4.9	3.3	3.5	0	2.5	2.5	0	2.4
F.F	4.9	4.9	1.9	2.4	1.4	2.5	2.5	2.5	0	2.5	2.4	2.6	4.9	0	0	0	2.5	2.5	0	2.8
REW	4.9	4.9	2.0	2.4	2.7	2.5	2.5	2.5	0	2.5	2.4	2.6	4.9	0	0	0	2.5	2.5	0	2.4
REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	2.4	5.0	1.3	3.5	0	4.7	0	0	4.9	0	4.7	4.9	4.9	4.9	4.9	0	0	0	0	4.9
PLAY	2.5	4.9	1.2	3.2	3.7	4.7	0	0	4.9	0	4.7	4.9	4.9	0.1	4.9	0	0	0	0	4.9
REC	2.5	4.9	1.4	3.6	0	4.9	0	0	4.9	0	4.7	4.9	4.9	0.1	4.9	0	0	0	0	4.9
F.F	2.4	4.9	1.4	3.5	0	4.9	0	0	4.9	0	4.7	4.9	4.9	0.1	0	0	0	0	0	4.9
REW	2.4	4.9	1.4	3.5	0	4.9	0	0	4.9	0	4.7	4.9	4.9	0.1	0	0	0	0	0	4.9
REF. NO.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	4.9	2.0	3.2	4.2	4.9	0	0	4.9	0.1	4.9	0	4.9	4.9	0	0	4.7	0	0	4.9	0
PLAY	4.9	0	3.2	4.2	4.9	0	0	4.9	0.1	4.9	0	0	0	0	0	4.7	0	4.9	4.9	0
REC	4.9	0	3.2	4.2	4.9	4.8	4.9	4.9	4.9	4.9	0	0	4.9	0	0	4.7	0	0	4.9	0
F.F	4.9	0	3.2	4.2	4.9	0	0	4.9	0.1	4.9	0	0	4.9	0	0	0	0	0	4.9	0
REW	4.9	4.9	3.2	4.2	4.9	0	0	4.9	0.1	4.9	0	4.9	4.9	0	0	0	0	0	4.9	0
REF. NO.	IC6001																			
MODE	81	82	83	84																
STOP	0	2.3	–	4.9																
PLAY	0	2.3	–	4.9																
REC	0	2.3	–	4.9																
F.F	0	2.3	–	4.9																
REW	0	2.3		4.9																
REF. NO.	IC6002										IC6003									
MODE	1	2	3	4							1	2	3	4						
STOP	1.2	0	4.9	0							2.3	1.2	0.1	0						
PLAY	1.2	0	4.9	0							2.3	1.2	4.9	0						
REC	1.2	0	4.9	0							2.3	1.2	4.9	0						
F.F	1.2	0	4.0	0							2.3	1.2	2.6	0						
REW	1.2	0	4.9	0							2.3	1.2	2.6	0						

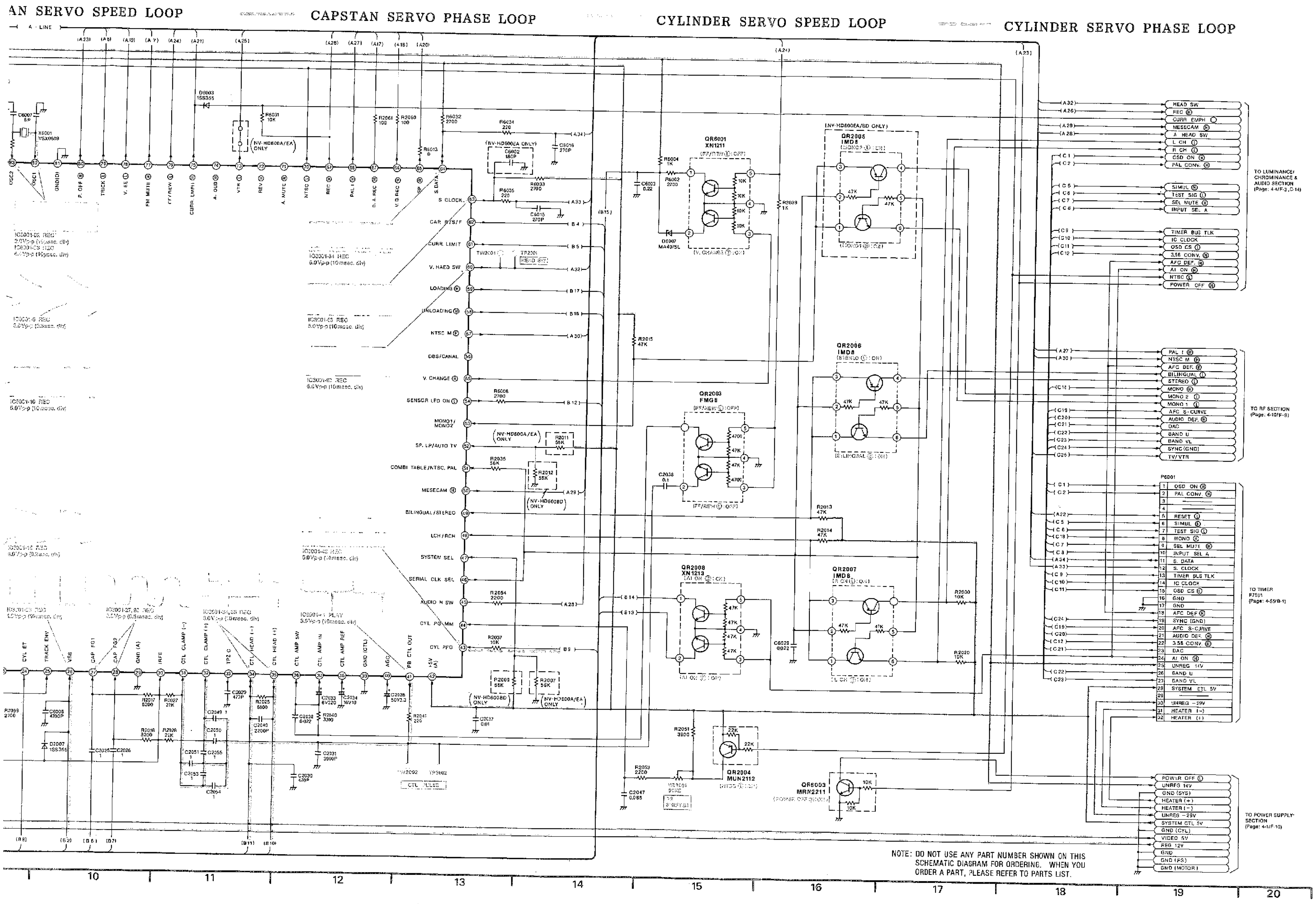
SYSTEM CONTROL & SERVO TRANSISTORs DC VOLTAGE CHART (SP MODE)

REF. NO.	Q1501			Q6001			Q6002											
MODE	E	C		E	C	B	E	C										
STOP	0	4.7		5.0	−0.4	5.0	0	4.9										
PLAY	0	4.9		4.9	4.9	4.2	0	4.9										
REC	0	4.9		4.9	4.9	4.2	0	4.9										
F.F	0	4.6		4.9	4.9	4.2	0	4.9										
REW	0	4.9		4.9	4.9	4.2	0	4.9										
REF. NO.	QR2001			QR2002			QR2003						QR2004					
MODE	E	C	B	E	C	B	1	2	3	4	5		E	C	B			
STOP	5.0	0	5.0	5.0	0.2	4.9	0	0	3.6	0	3.6		5.0	4.7	5.0			
PLAY	5.0	0	5.0	4.9	0.2	4.9	0	0	3.6	0	3.6		5.0	4.7	5.0			
REC	5.0	0	5.0	4.9	0.2	4.9	0	0	3.6	0	3.6		5.0	4.7	5.0			
F.F	5.0	0	5.0	4.9	0.2	4.9	0	0.8	0	0	0		5.0	4.7	5.0			
REW	5.0	0	5.0	4.9	0.2	4.9	0	0.8	0	0	0		5.0	4.7	5.0			
REF. NO.	QR2005						QR2006						QR2007					
MODE	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
STOP	4.9	4.7	4.9	5.0	4.7	5.0	4.9	4.7	0	5.1	4.9	5.0	0	0	0	0	4.7	0
PLAY	4.9	4.7	4.9	5.0	4.7	5.0	4.9	4.7	4.9	5.1	4.9	5.0	0	4.7	0	0	4.7	0
REC	4.9	4.7	4.9	5.0	4.7	5.0	4.9	4.7	4.9	5.1	4.9	5.0	0	4.7	0	0	4.7	0
F.F	4.9	4.7	4.9	5.0	4.7	5.0	4.9	4.7	4.9	5.1	4.9	5.0	0	0	0	0	4.7	0
REW	4.9	4.7	4.9	5.0	4.7	5.0	4.9	4.9	4.9	5.1	4.9	5.0	0	4.9	0	0	4.9	0
REF. NO.	QR2008						QR2014			QR6001						QR6003		
MODE	1	2	3	4	5		E	C	B	1	2	3	4	5		E	C	B
STOP	0	0	4.2	0	4.2		0	2.7	0	0	0	4.9	0	4.7		0	12.9	0
PLAY	0	0	4.2	0	4.2		0	2.7	0	0	0	4.9	0	4.7		0	12.9	0
REC	0	0	4.2	0	4.2		0	2.7	0	0	0	4.9	0	4.7		0	12.9	0
F.F	0	0	4.2	0	4.2		0	2.7	0	13.6	7.3	0	0	0		0	12.9	0
REW	0	0	4.2	0	4.2		0	2.7	0	13.6	7.4	0	0	0		0	12.9	0

4-5 SYSTEM CONTROL & SERVO SECTION IN MAIN SCHEMATIC DIAGRAM


CAPSTAN SERVO SPEED LOOP
A - LINE
B - LINE
INTERFACE C.B.A. (VEP00U88A)
SAFETY TAB C.B.A. (VEP00U71A)
PS1501
PS6005
PP6005
PP1501
S-PHOTO
SAFETY TAB
GND
SW1501
VES0595
Q1501
PN205L
(S-PHOTO)
MODE SW
P6004
POSI. SW 2
POSI. SW 1
POSI. SW 3
LOADING MOTOR
P2001
LOADING M (−)
LOADING M (+)
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION (Page: 4-4/F-3, C-14)
MODE SELECT
H. AMP SW
ART V/H/N
ENV. SELECT
ROTARY SW
FM MUTE
VSS
TRICK
SP
LP
PP2001 (18PIN: NV-HD600A/BD) (17PIN: NV-HD600EA)
REG 12V
GND (MOTOR)
UNREG 14V
CAP ET
SYSTEM CTL 5V
CAP R/S/F
CURR. LIMIT
GND (FG)
FG 1
FG 2
SLOW TRACK
GND (CYL)
CYL ET
TEST
CYL PG/FG
DEW SENSOR
TO PS2501 (Page: 4-18/E-7)
PP2002
CTL HEAD (+)
CTL HEAD (−)
A. HEAD (W)
A. HEAD (R)
REG 12V
D. A. REC
TO PS4701 (Page: 4-18/A-7)
MOTOR DRIVE & SUB AUDIO PACK C.B.A. (VEP04469G : NV-HD600A/BD) (VEP04469H : NV-HD600EA)
V EE
D.REC
TRACKING ENV.
PICTURE CTL
IC6003 ON1387 (T-REEL)
IC6002 ON1387 (S-REEL)
QR2002 UN2114 (LP:ON)
QR2001 MUN2113
IC2001 XRA6887-V3
LOADING MOTOR DRIVE
IC2004 LM358PS
Q6001 MSB709 (SENSOR LED DRIVE)
D6001 LN59L
SENSOR
QR2014 MUN2213
D6002 PN205L (T-PHOTO)
IC6001 MN67434 VRSZ
X6001 VSX0609
(NV-HD600A/BD) ONLY
(NV-HD600EA) ONLY
ART V
SAFETY TAB
POSI. SW3
POSI. SW2
POSI. SW1
S. REEL PULSE
NOR/SER/TEST
DEW SNS
TEST
ENV SELECT
ROTARY SW
+5V (D)
H. AMP SW
ART. V MM
ART V/H/N
SLW TR. MM
SLW TR. REF
T. PHOTO
S. PHOTO
T. REEL PULSE
SP/LP
AUDIO MODE SEL
RESET
OSC2
OSC1
GND(D)
P. OFF
TRICK
V. EE
FM MUTE
FF/REW
+5V(DAC)
CAP ET
CYL ET
TRACK ENV
VSS
CAP FG1
CAP FG2
GND (A)
IREF
1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G

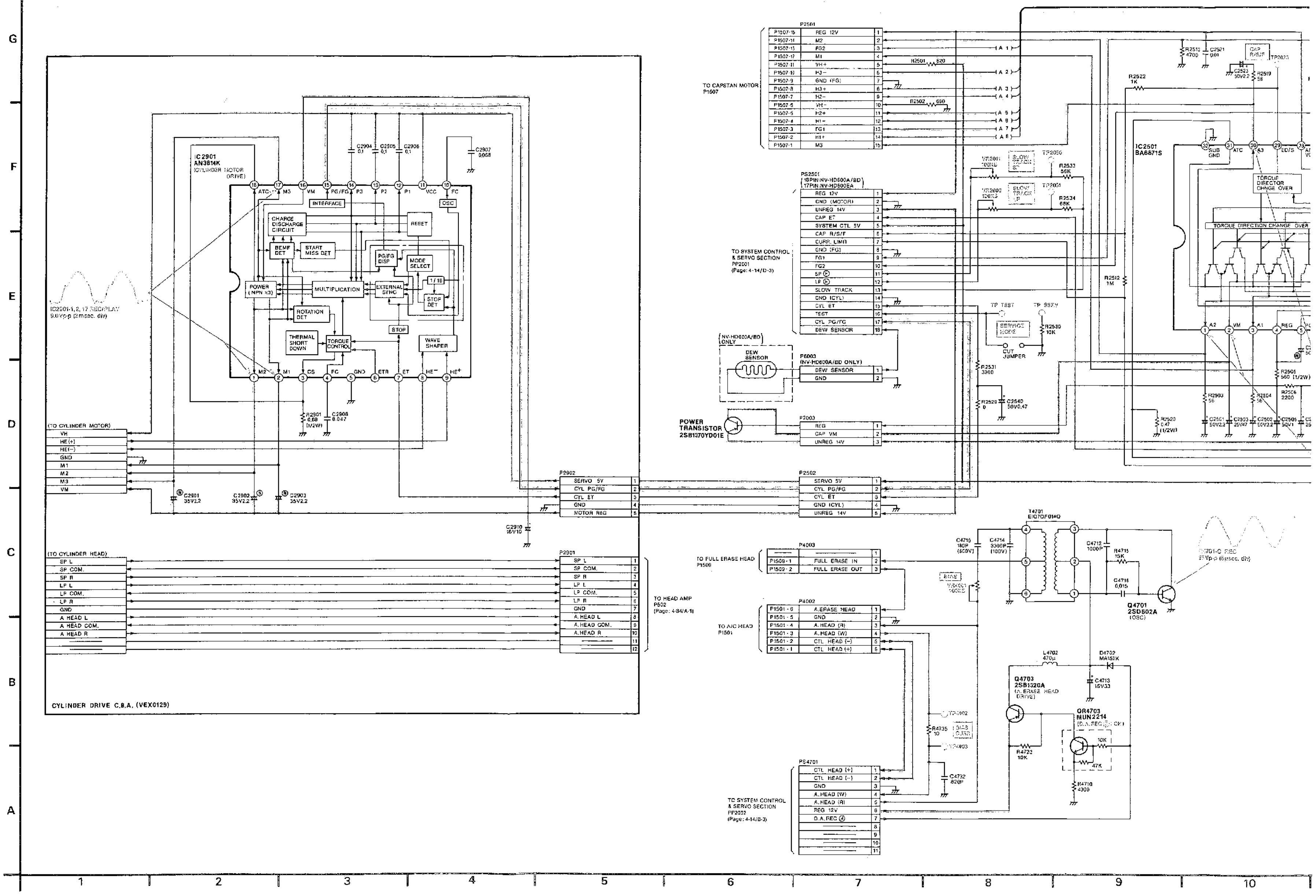
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.


AN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
A - LINE
OSC2
OSC1
GND(D)
P. OFF
TRICK
V. EE
FM MUTE
FF/REW
CURR EMPH
A. DUB
VTR
REV
A. MUTE
NTSC
REC
PAL I
D.A REC
V.D REC
SP
S.DATA
S. CLOCK
CAP. BTS/F
CURR LIMIT
V. HAED SW
LOADING
UNLOADING
NTSC M
DBS/CANAL
V. CHANGE
SENSOR LED ON
MONO1/MONO2
SP. LP/AUTO TV
COMBI TABLE/NTSC. PAL
MESECAM
BILINGUAL/STEREO
LCH/RCH
SYSTEM SEL
SERIAL CLK SEL
AUDIO H SW
CYL PG-MM
CYL PFG
+5V (A)
PB CTL OUT
AGC
GND (CTL)
CTL AMP REF
CTL AMP IN
CTL AMP SW
CTL HEAD (+)
CTL HEAD (-)
TP2 C
CTL CLAMP (+)
CTL CLAMP (-)
IRFE
GND (A)
CAP FG2
CAP FG1
VSS
TRACK ENV
CYL ET
X6001 VSX0609
D6003 1SS355
D2007 1SS355
(NV-HD600A/EA) ONLY
(NV-HD600EA ONLY)
(NV-HD600BD) ONLY
TW2001
TP2201
HEAD SW
TW2002
TP2002
CTL PULSE
IC6001-34 REC 5.0Vp-p (10msec. div)
IC6001-63 REC 5.0Vp-p (10msec. div)
IC6001-60 REC 5.0Vp-p (10msec. div)
IC6001-10 REC 5.0Vp-p (10msec. div)
IC6001-6 REC 5.0Vp-p (0.5msec. div)
IC6001-42 PLAY 3.5Vp-p (10msec. div)
QR6001 XN1211
(FF/REW Ⓗ:OFF)
(V. CHANGE Ⓗ:ON)
D6007 MA4075L
QR2005 IMD8
(NV-HD600EA/BD ONLY)
QR2006 IMD8
(BILINGUAL Ⓗ:ON)
QR2003 FMG8
(FF/REW Ⓗ:OFF)
QR2008 XN1213
(AI ON Ⓗ:ON)
QR2007 IMD8
(L CH Ⓛ:ON)
QR2004 MUN2112
QR6003 MRN2211
(POWER OFF Ⓛ:ON)
HEAD SW
REC Ⓗ
CURR EMPH
MESECAM Ⓗ
A HEAD SW
L CH Ⓛ
R CH Ⓛ
OSD ON Ⓗ
PAL CONV. Ⓗ
SIMUL Ⓗ
TEST SIG Ⓛ
SEL MUTE Ⓗ
INPUT SEL A
TIMER BUS TLK
IC CLOCK
OSD CS Ⓛ
3.58 CONV. Ⓗ
AFC DEF. Ⓗ
AI ON Ⓗ
NTSC Ⓛ
POWER OFF Ⓗ
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION (Page: 4-4/F-3 ,C-14)
PAL I Ⓗ
NTSC M Ⓗ
AFC DEF. Ⓗ
BILINGUAL Ⓛ
STEREO Ⓛ
MONO Ⓗ
MONO 2 Ⓛ
MONO 1 Ⓛ
AFC S-CURVE
AUDIO DEF. Ⓗ
DAC
BAND U
BAND VL
SYNC (GND)
TV/VTR
TO RF SECTION (Page: 4-10/F-9)
P6D01
1 OSD ON Ⓗ
2 PAL CONV. Ⓗ
3
4
5 RESET Ⓛ
6 SIMUL Ⓗ
7 TEST SIG Ⓛ
8 MONO Ⓗ
9 SEL MUTE Ⓗ
10 INPUT SEL A
11 S. DATA
12 S. CLOCK
13 TIMER BUS TLK
14 IC CLOCK
15 OSD CS Ⓛ
16 GND
17 GND
18 AFC DEF Ⓗ
19 SYNC (GND)
20 AFC S-CURVE
21 AUDIO DEF. Ⓗ
22 3.58 CONV. Ⓗ
23 DAC
24 AI ON Ⓗ
25 UNREG 14V
26 BAND U
27 BAND VL
28 SYSTEM CTL 5V
29
30 UNREG −29V
31 HEATER (−)
32 HEATER (+)
TO TIMER P7501 (Page: 4-55/B-1)
POWER OFF Ⓛ
UNREG 14V
GND (SYS)
HEATER (+)
HEATER (−)
UNREG −29V
SYSTEM CTL 5V
GND (CYL)
VIDEO 5V
REG 12V
GND
GND (FS)
GND (MOTOR)
TO POWER SUPPLY SECTION (Page: 4-1/F-10)
10
11
12
13
14
15
16
17
18
19
20

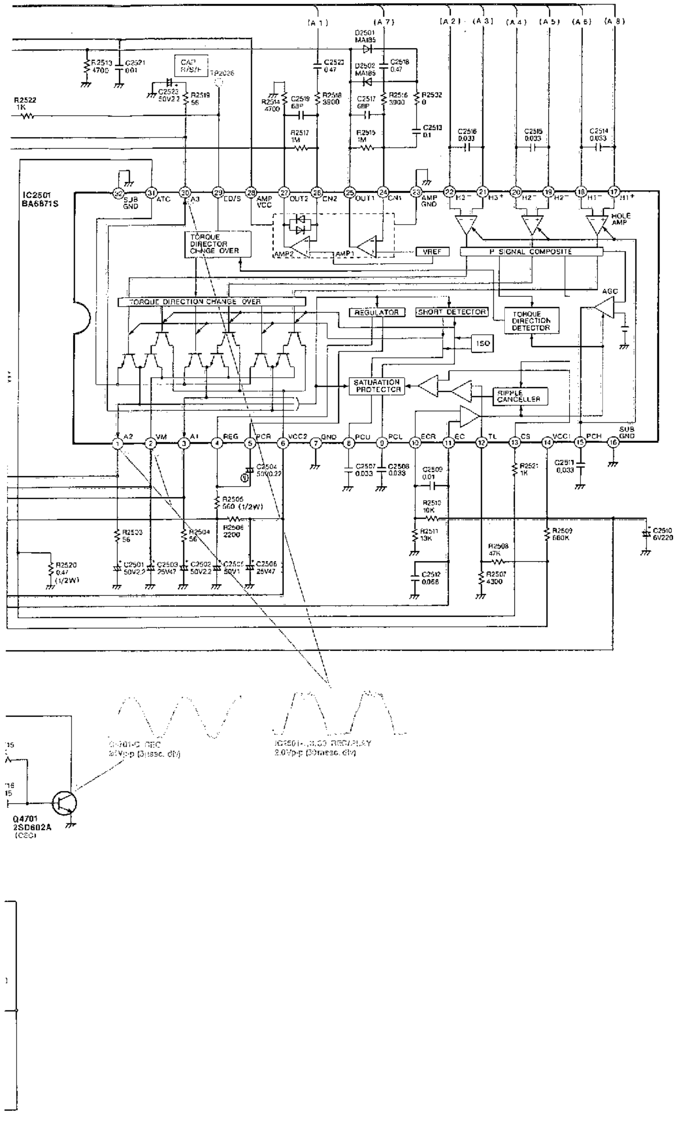
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-6 MOTOR DRIVE & SUB AUDIO PACK SCHEMATIC DIAGRAM

CAPSTAN SERVO SPEED LOOP
CYLINDER SERVO SPEED LOOP


G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
IC2901
AN3814K
(CYLINDER MOTOR DRIVE)
ATC
M3
VM
PG/FG
P3
P2
P1
VCC
FC
INTERFACE
OSC
CHARGE DISCHARGE CIRCUIT
RESET
BEMF DET
START MISS DET
PG/FG DISP
MODE SELECT
1/18
POWER (NPN ×3)
MULTIPLICATION
EXTERNAL SYNC
STOP DET
ROTATION DET
STOP
THERMAL SHORT DOWN
TORQUE CONTROL
WAVE SHAPER
M2
M1
CS
GND
ETR
ET
HE−
HE+
C2904 0.1
C2905 0.1
C2906 0.1
C2907 0.068
R2901 0.68 (1/2W)
C2908 0.047
C2901 35V2.2
C2902 35V2.2
C2903 35V2.2
C2910 16V10
IC2901-1, 2, 17 REC/PLAY
9.0Vp-p (2msec. div)
(TO CYLINDER MOTOR)
VH
HE(+)
HE(−)
GND
M1
M2
M3
VM
P2902
SERVO 5V
CYL PG/FG
CYL ET
GND
MOTOR REG
(TO CYLINDER HEAD)
SP L
SP COM.
SP R
LP L
LP COM.
LP R
GND
A.HEAD L
A.HEAD COM.
A.HEAD R
P2901
TO HEAD AMP
P502
(Page: 4-34/A-1)
CYLINDER DRIVE C.B.A. (VEX0129)
TO CAPSTAN MOTOR
P1507
P2501
P1507-15
P1507-14
P1507-13
P1507-12
P1507-11
P1507-10
P1507-9
P1507-8
P1507-7
P1507-6
P1507-5
P1507-4
P1507-3
P1507-2
P1507-1
REG 12V
M2
FG2
M1
VH+
H3−
GND (FG)
H3+
H2−
VH−
H2+
H1−
FG1
H1+
M3
R2501 820
R2502 680
A 1
A 2
A 3
A 4
A 5
A 6
A 7
A 8
PS2501
(18PIN:NV-HD600A/BD
17PIN:NV-HD600EA)
REG 12V
GND (MOTOR)
UNREG 14V
CAP ET
SYSTEM CTL 5V
CAP R/S/F
CURR. LIMIT
GND (FG)
FG1
FG2
SP Ⓗ
LP Ⓗ
SLOW TRACK
GND (CYL)
CYL ET
TEST
CYL PG/FG
DEW SENSOR
TO SYSTEM CONTROL
& SERVO SECTION
PP2001
(Page: 4-14/D-3)
(NV-HD600A/BD ONLY)
DEW SENSOR
P6003
(NV-HD600A/BD ONLY)
DEW SENSOR
GND
POWER TRANSISTOR
2SB1370YD01E
P2003
REG
CAP VM
UNREG 14V
P2502
SERVO 5V
CYL PG/FG
CYL ET
GND (CYL)
UNREG 14V
TO FULL ERASE HEAD
P1509
P4003
P1509-1
P1509-2
FULL ERASE IN
FULL ERASE OUT
TO A/C HEAD
P1501
P4002
P1501-6
P1501-5
P1501-4
P1501-3
P1501-2
P1501-1
A.ERASE HEAD
GND
A.HEAD (R)
A.HEAD (W)
CTL HEAD (−)
CTL HEAD (+)
PS4701
CTL HEAD (+)
CTL HEAD (−)
GND
A.HEAD (W)
A.HEAD (R)
REG 12V
D.A.REC Ⓗ
TO SYSTEM CONTROL
& SERVO SECTION
PP2002
(Page: 4-14/B-3)
VR2011 100KB
SLOW TRACK SP
TP2050
R2533 56K
VR2003 100KB
SLOW TRACK LP
TP2051
R2534 68K
TP TEST
TP SSTY
SERVICE MODE
R2530 10K
CUT JUMPER
R2531 3300
R2529 0
C2540 50V0.47
R2513 4700
C2521 0.01
CAP R/S/F
TP2020
C2523 50V2.2
R2519 56
R2522 1K
IC2501
BA6871S
SUB GND
ATC
A3
ED/S
TORQUE DIRECTOR CHNGE OVER
TORQUE DIRECTION CHANGE OVER
R2512 1M
A2
VM
A1
REG
R2505 560 (1/2W)
R2506 2200
R2503 56
R2504 56
R2520 0.47 (1/2W)
C2501 50V2.2
C2503 25V47
C2502 50V2.2
C2505 50V1
T4701
EIQ7QF014Q
C4715 180P (500V)
C4714 3300P (100V)
C4712 1000P
R4715 15K
C4716 0.015
BIAS
VR4001 100KB
Q4701
2SD602A
(OSC)
Q4701-C REC
25Vp-p (5µsec. div)
L4702 470µ
D4702 MA151K
C4713 16V33
Q4703
2SB1320A
(A.ERASE HEAD DRIVE)
QR4703
MUN2214
(D.A.REC Ⓗ: ON)
10K
47K
R4722 10K
R4710 4300
TP4002
R4735 10
BIAS CHECK
TP4003
C4732 820P

SPEED LOOP CAPSTAN SERVO PHASE LOOP
SPEED LOOP CYLINDER SERVO PHASE LOOP


(A 1)
(A 7)
(A 2)
(A 3)
(A 4)
(A 5)
(A 6)
(A 8)
R2513 4700
C2521 0.01
CAP R/S/F
TP2026
C2523 50V2.2
R2519 56
R2522 1K
R2514 4700
C2519 68P
R2518 3900
R2517 1M
C2522 0.47
D2501 MA185
D2502 MA185
C2518 0.47
C2517 68P
R2516 3900
R2515 1M
R2532 0
C2513 0.1
C2516 0.033
C2515 0.033
C2514 0.033
IC2501
BA6871S
SUB GND
ATC
A3
CD/S
AMP VCC
OUT2
CN2
OUT1
CN1
AMP GND
H3⁻
H3⁺
H2⁻
H2⁺
H1⁻
H1⁺
HOLE AMP
TORQUE DIRECTOR CHANGE OVER
AMP2
AMP1
VREF
P SIGNAL COMPOSITE
TORQUE DIRECTION CHANGE OVER
REGULATOR
SHORT DETECTOR
TORQUE DIRECTION DETECTOR
AGC
150
SATURATION PROTECTOR
RIPPLE CANCELLER
A2
VM
A1
REG
PCR
VCC2
GND
PCU
PCL
ECR
EC
TL
CS
VCC1
PCH
SUB GND
C2504 50V0.22
C2507 0.033
C2508 0.033
C2509 0.01
R2521 1K
C2511 0.033
R2505 560 (1/2W)
R2506 2200
R2510 10K
R2511 13K
R2509 680K
C2510 6V220
R2503 56
R2504 56
R2520 0.47 (1/2W)
C2501 50V2.2
C2503 25V47
C2502 50V2.2
C2505 50V1
C2506 25V47
R2508 47K
R2507 4300
C2512 0.068
Q4701-C REC
2.0Vp-p (30msec. div)
IC2501-(3),(30) REC/PLAY
2.0Vp-p (30msec. div)
Q4701
2SD602A
(C20)
10
11
12
13

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

MOTOR DRIVE & SUB AUDIO PACK ICs DC VOLTAGE CHART (SP MODE)

REF. NO.	IC2501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0.6	4.4	0.6	13.2	0.1	13.9	0	4.5	0.7	2.8	0.2	0.4	0	4.9	1.5	0	2.3	2.3	2.3	2.2
PLAY	2.6	4.3	2.6	12.4	1.9	13.6	0	0.7	0.7	2.8	2.5	0.4	0.1	4.9	1.5	0	2.3	2.3	2.3	2.3
REC	2.7	4.3	2.7	12.4	2.0	13.6	0	0.7	0.7	2.8	2.5	0.4	0.1	5.0	1.5	0	2.3	2.3	2.3	2.3
F.F	7.5	13.4	7.5	4.3	11.6	13.5	0.1	0.8	0.8	2.8	2.0	0.5	0.2	4.9	1.5	0	2.3	2.3	2.3	2.3
REW	7.0	13.5	7.0	6.9	11.7	13.6	0	0.7	0.8	2.8	2.3	0.5	0.1	4.9	1.5	0	2.3	2.3	2.3	2.3
REF. NO.	IC2501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
STOP	2.2	2.3	0	6.3	6.3	6.3	6.3	12.3	2.0	0.6	0	0								
PLAY	2.3	2.3	0	6.3	6.3	6.3	6.3	12.3	0	2.6	0	0								
REC	2.3	2.3	0	6.3	6.3	6.3	6.3	12.3	0	2.6	0.1	0								
F.F	2.3	2.3	0	6.3	6.3	6.3	6.3	12.3	0	7.5	0.2	0								
REW	2.3	2.3	0	6.3	6.3	6.3	6.3	12.3	4.9	7.4	0.2	0								
REF. NO.	IC2901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
STOP	13.1	13.1	0.1	0.6	0	2.5	2.4	2.6	2.5	2.6	4.9	3.7	3.6	3.7	1.3	13.8	13.3	0.1		
PLAY	13.8	12.8	0.2	0.6	0	2.5	2.4	2.6	2.5	2.7	4.9	3.7	3.7	3.7	1.4	13.6	13.7	0.2		
REC	13.7	13.7	0.2	0.6	0	2.5	2.4	2.6	2.5	2.7	4.9	3.8	3.7	3.7	1.5	13.6	13.7	0.2		
F.F	13.8	13.8	0.1	0.6	0	2.5	2.4	2.6	2.5	2.7	4.9	3.8	3.7	3.7	1.5	13.5	13.7	0.1		
REW	13.8	13.8	0.2	0.6	0	2.5	2.4	2.6	2.5	2.7	4.9	3.7	3.7	3.7	1.5	13.5	13.7	0.2		

MOTOR DRIVE & SUB AUDIO PACK PINs DC VOLTAGE CHART (SP MODE)

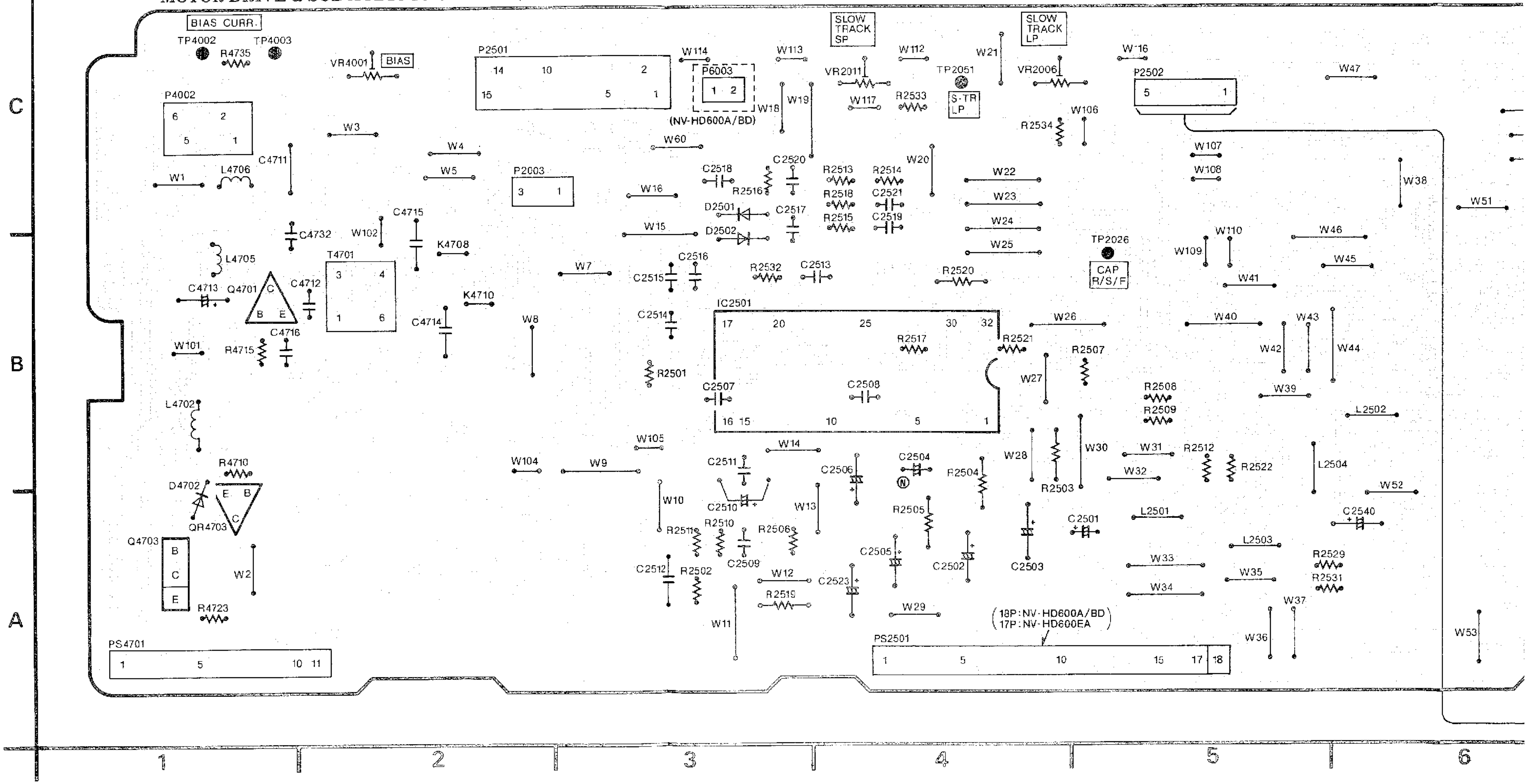
REF. NO.	PS2501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
STOP	12.3	0	13.8	0.2	4.9	2.0	4.9	0	6.3	6.3	4.4	0	0	0	2.4	5.0	1.4			
PLAY	12.3	0	13.6	2.5	4.9	0	4.9	0	6.3	6.3	4.4	0	0	0	2.4	4.9	1.4			
REC	12.3	0	13.6	2.5	4.9	0	4.9	0	6.3	6.3	4.4	0	0	0	2.4	4.9	1.4			
F.F	12.3	0	13.5	2.1	4.9	0	4.9	0	6.3	6.3	4.4	0	0	0	2.4	4.9	1.4			
REW	12.3	0	13.5	2.1	4.9	4.9	4.9	0	6.3	6.3	4.4	0	0	0	2.4	4.9	1.4			
REF. NO.	PS4701																			
MODE	1	2	3	4	5	6	7	8	9	10	11									
STOP	0	0	0	0	0	12.3	0	0	0	4.9	0									
PLAY	0	0	0	0	0	12.3	0	0	0	0	4.9									
REC	3.5	3.5	0	0	0	12.3	4.9	4.7	0	4.9	0									
F.F	0	0	0	0	0	12.3	0	0	0	4.9	0									
REW	0	0	0	0	0	12.3	0	0	0	4.9	0									

MOTOR DRIVE & SUB AUDIO PACK TRANSISTORs DC VOLTAGE CHART (SP MODE)

REF. NO.	Q4701			Q4703		
MODE	E	C	B	E	C	B
STOP	0	0.2	0.2	12.3	0.3	12.3
PLAY	0	0.3	0.3	12.3	0.3	12.3
REC	0	11.3	−1.4	12.3	11.9	11.9
F.F	0	0.3	0.3	12.3	0.3	12.3
REW	0	0.3	0.3	12.3	0.3	12.3
REF. NO.	QR4703					
MODE	E	C	B			
STOP	0	12.3	0			
PLAY	0	12.3	0			
REC	4.1	11.5	4.9			
F.F	0	12.3	0			
REW	0	12.3	0			

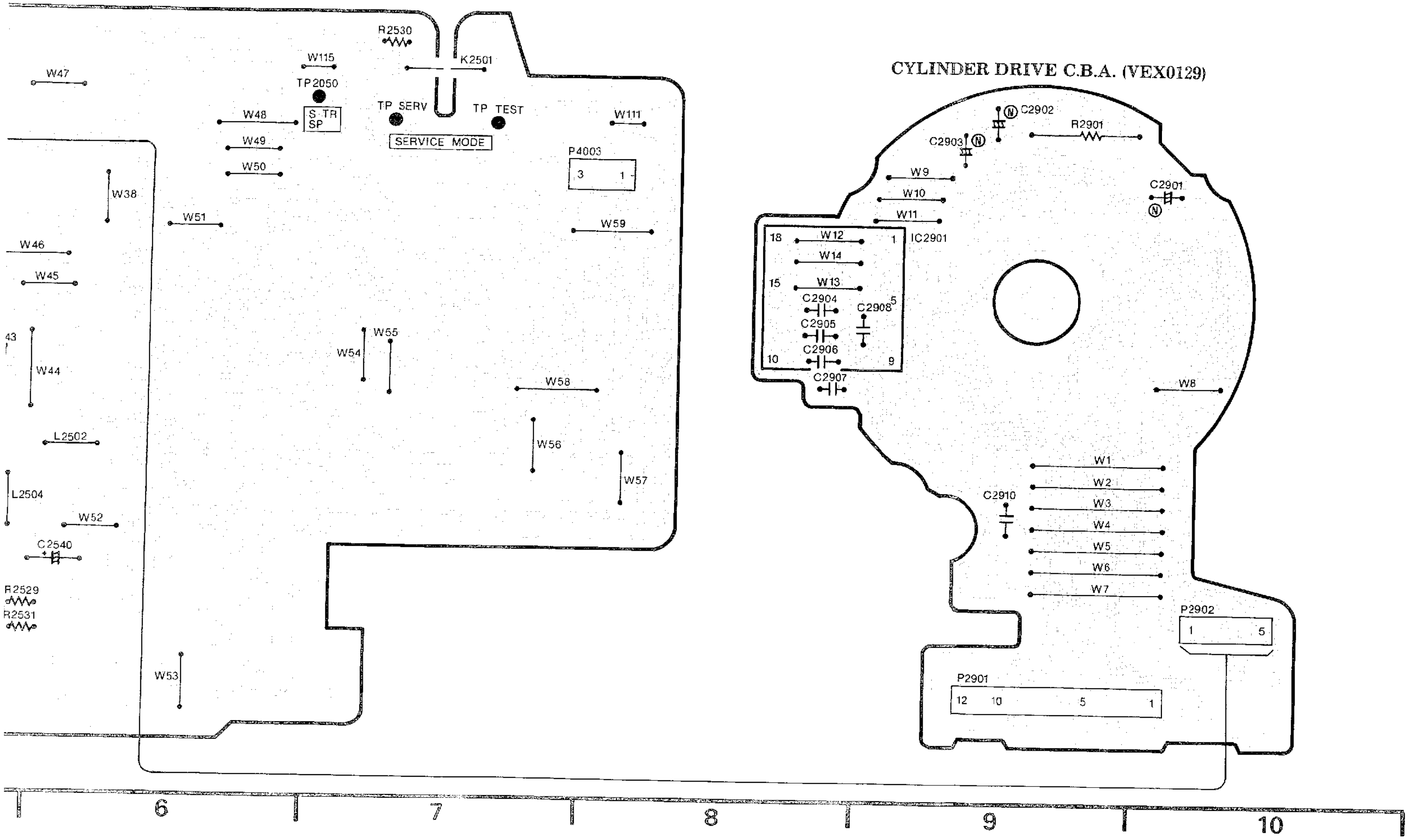
4-7 MOTOR DRIVE & SUB AUDIO PACK C.B.A. (VEP04469G: NV-HD600A/BD) (VEP04469H: NV-HD600EA)

MOTOR DRIVE & SUB AUDIO PACK C.B.A. (VEP04469G: NV-HD600A/BD) (VEP04469H: NV-HD600EA)



BIAS CURR.
TP4002
TP4003
R4735
VR4001
BIAS
P2501
14
10
2
15
5
1
W114
P6003
1 2
(NV-HD600A/BD)
W113
W18
W19
SLOW TRACK SP
VR2011
W117
R2533
W112
TP2051
S-TR LP
W21
SLOW TRACK LP
VR2006
W16
P2502
5
1
R2534
W106
W47
P4002
6
2
5
1
W3
W4
W5
W60
C4711
W1
L4706
P2003
3
1
W16
C2518
R2516
C2520
R2513
R2514
W20
R2518
C2521
R2515
C2519
C2517
D2501
D2502
W15
W22
W23
W24
W25
W107
W108
W38
W51
C4715
C4732
W102
K4708
T4701
3
4
1
6
L4705
W7
C2516
C2515
R2532
C2513
R2520
TP2026
CAP R/S/F
W109
W110
W46
W45
W41
C4713
Q4701
C
B
E
C4712
K4710
C4716
C4714
W8
C2514
IC2501
17
20
25
30
32
R2517
R2521
W26
W40
W43
W42
W44
W101
R4715
R2501
R2507
W27
C2507
C2508
16 15
10
5
1
R2508
R2509
W39
L2502
L4702
W105
W104
W9
W14
C2511
C2506
C2504
R2504
W28
W30
W31
R2512
R2522
L2504
R4710
D4702
QR4703
W10
C2510
W13
R2503
W32
W52
R2505
C2501
L2501
C2540
Q4703
R2511
R2510
R2506
C2505
C2502
C2503
L2503
R2529
W2
C2512
R2502
C2509
W12
C2523
W33
W35
R2531
R4723
W11
R2519
W29
W34
W37
(18P: NV-HD600A/BD)
(17P: NV-HD600EA)
W36
W53
PS4701
1
5
10
11
PS2501
1
5
10
15
17
18
A
B
C
1
2
3
4
5
6

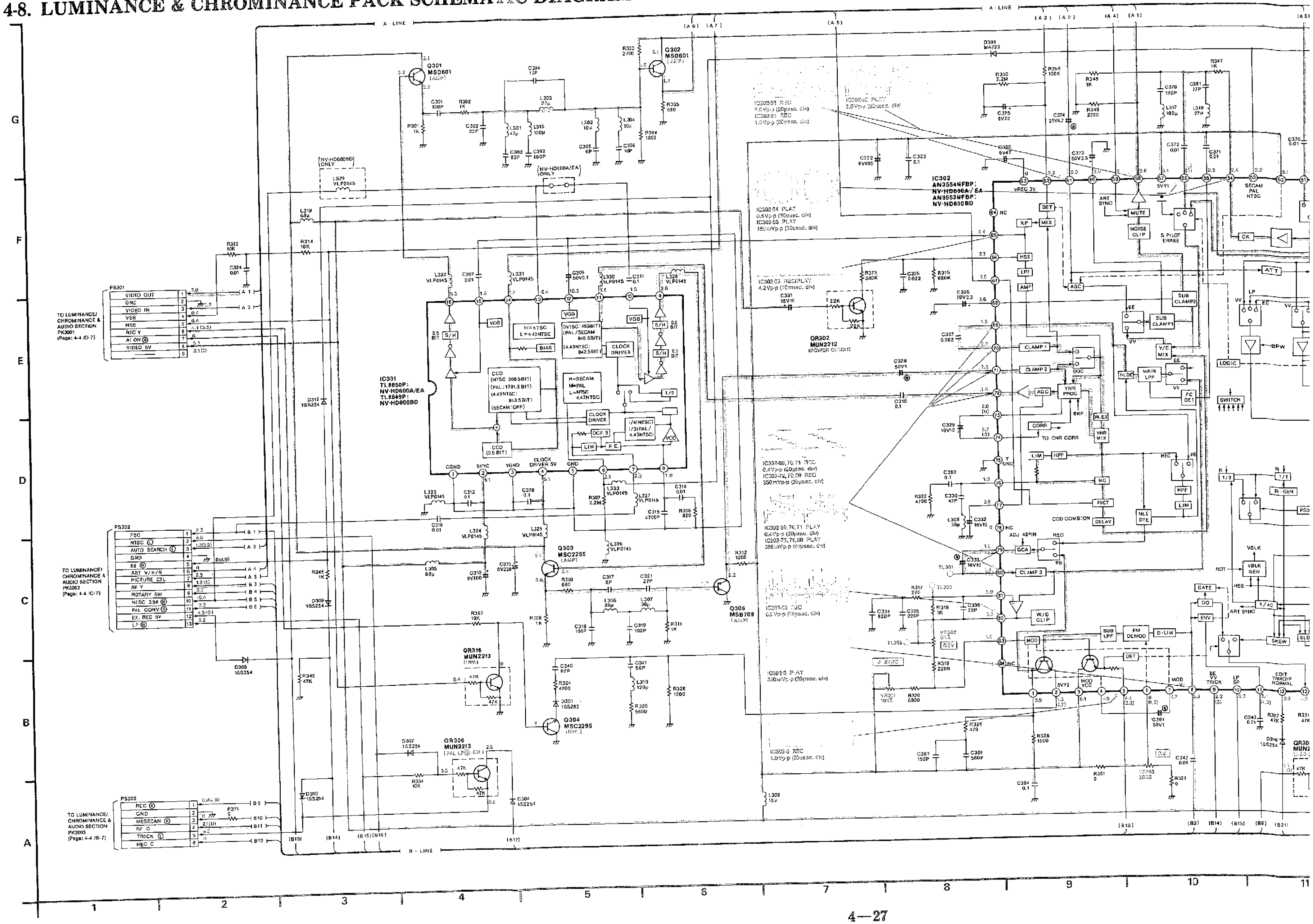
CYLINDER DRIVE C.B.A. (VEX0129)


W47
W115
TP2050
R2530
K2501
TP SERV
TP TEST
SERVICE MODE
S TR
SP
W48
W49
W50
W111
P4003
3
1
W38
W51
W59
W46
W45
43
W44
W54
W55
W58
L2502
W56
W57
L2504
W52
C2540
R2529
R2531
W53
C2902
R2901
C2903
W9
W10
W11
C2901
IC2901
18
1
W12
W14
15
W13
C2904
C2905
C2906
C2907
C2908
5
10
9
W8
W1
W2
W3
W4
W5
W6
W7
C2910
P2902
1
5
P2901
12
10
5
1
6
7
8
9
10

MOTOR DRIVE & SUB AUDIO PACK C.B.A.	
Transistor	
Q4701	B-1
Q4703	A-1
Transistor & Resistor	
QR4703	A-1
Integrated Circuit	
IC2501	B-3
IC2902	B-8
Test Point	
TP2026	B-5
TP2050	C-7
TP2051	C-4
TP4002	C-1
TP4003	C-1
TP SERV	C-7
TP TEST	C-7
Adjustment	
VR2006	C-4
VR2011	C-4
VR4001	C-2
Connector	
P2003	C-2
P2501	C-2
P2502	C-5
P2901	A-9
P2902	A-10
P4002	C-1
P4003	C-8
P6003	C-3
PS2501	A-4
PS4701	A-1

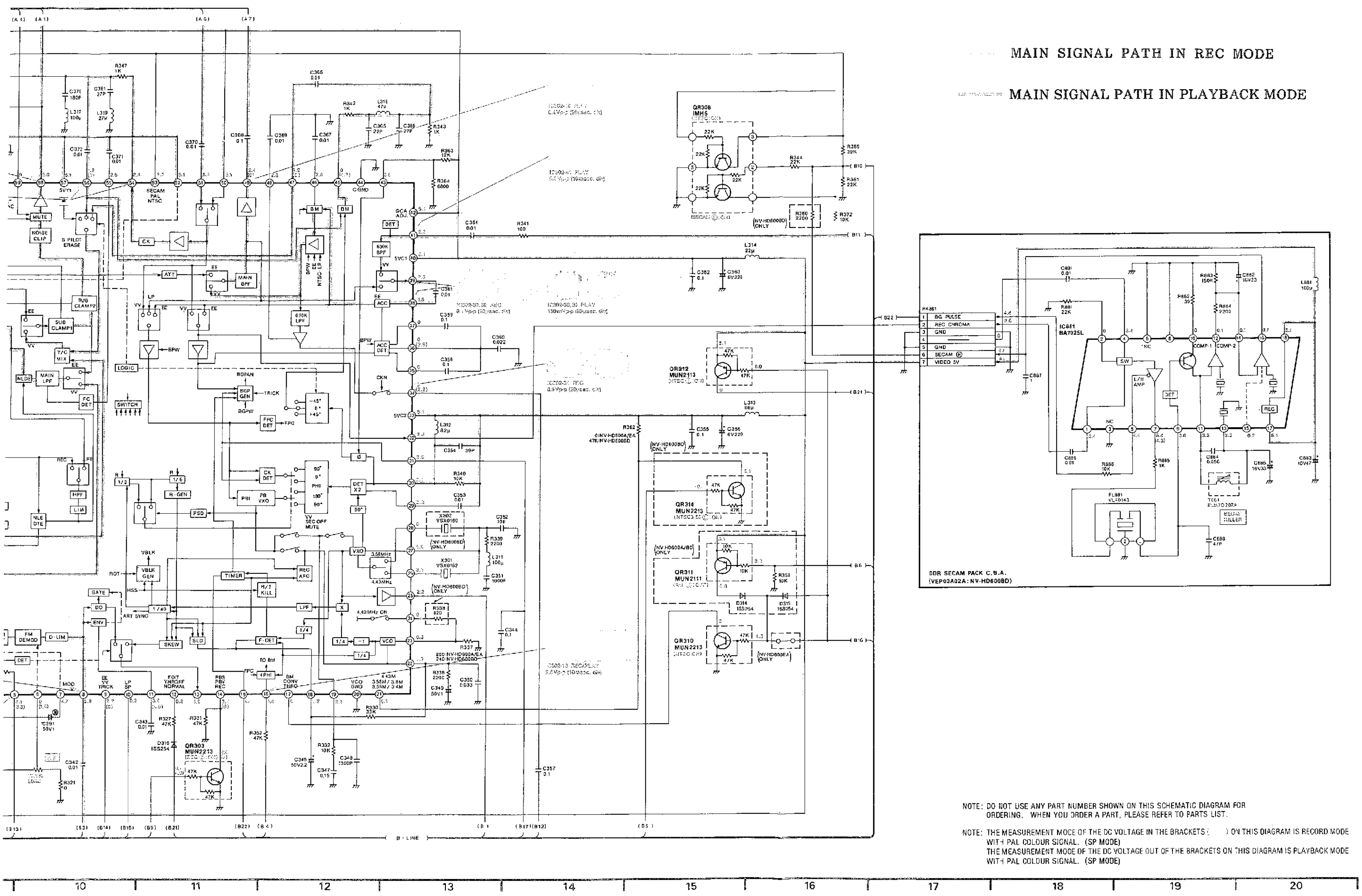
ADDRESS INFORMATION

4-8. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM


A - LINE
B - LINE
PS301
VIDEO OUT
GND
VIDEO IN
VSS
HSS
REC Y
AI ON Ⓗ
VIDEO 5V
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION PK3001 (Page: 4-4 /D-7)
PS302
FSC
NTSC Ⓛ
AUTO SEARCH Ⓛ
GND
EE Ⓗ
ART V/H/N
PICTURE CTL
RF Y
ROTARY SW
NTSC 3.58 Ⓗ
PAL CONV.Ⓗ
EX. REC 5V
LP Ⓗ
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION PK3002 (Page: 4-4 /C-7)
PS303
REC Ⓗ
GND
MESECAM Ⓗ
RF C
TRICK Ⓛ
REC C
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION PK3003 (Page: 4-4 /B-7)
Q301 MSD601 (AMP)
Q302 MSD601 (AMP)
Q303 MSC2295 (AMP)
Q304 MSC2295
Q305 MSB709 (AMP)
QR302 MUN2212 (POWER ON SW)
QR306 MUN2213 (PAL LP Ⓗ CH)
QR316 MUN2213
IC301 TL8850P: NV-HD600A/EA TL8849P: NV-HD600BD
IC302 AN3554NFBP: NV-HD600A/EA AN3553NFBP: NV-HD600BD
NV-HD600BD ONLY
NV-HD600A/EA ONLY
CCD
CLOCK DRIVER
VCO
CLAMP 1
CLAMP 2
CLAMP 3
SUB CLAMP1
SUB CLAMP2
AGC
YNR PROC
NOISE CLIP
MUTE
W/D CLIP
FM DEMOD
SUB LPF
MAIN LPF
Y/C MIX
CCD COMB'ON
SECAM PAL NTSC
S PILOT ERASE
ART SYNC
LOGIC
SWITCH
SKEW
VBLK GEN
GATE
ENV
R-GEN
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
10
11

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE


(A 4)
(A 1)
(A 6)
(A 7)
R347 1K
C376 180P
C381 27P
L317 100μ
L319 27μ
C372 0.01
C371 0.01
C370 0.01
C308 0.1
C369 0.01
C367 0.01
C366 0.01
R342 1K
L315 47μ
C365 22P
C368 27P
R343 1K
R363 12K
R364 6800
MUTE
NOISE CLIP
5 PILOT ERASE
SECAM PAL NTSC
CK
GCA ADJ.
DET
630K BPF
SVC1
ATT
MAIN BPF
EE
LP
VV
BPW
NTSC
SUB CLAMP2
SUB CLAMP1
Y/C MIX
MAIN LPF
NLDE
FC DET
LOGIC
SWITCH
630K LPF
ACC
ACC DET
CKN
BGPAN
BGP GEN
TRICK
BGPW
FPC DET
FPC
-45°
0°
+45°
SVC2
C354 39P
L312 82μ
CK DET
PHI
PB VXO
90°
0°
180°
DET X2
R340 10K
C353 0.01
C352 10P
X302 VSX0160
(NV-HD600BD) ONLY
R339 2200
L311 100μ
X301 VSX0162
C351 1000P
3.58MHz
4.43MHz
4.43MHz ON
VV SEC OFF MUTE
VXO
REC AFC
TIMER
H/2 KILL
LPF
1/4
-1
VCO
F.DET
R338 820
R337 47K
200:NV-HD600A/EA
240:NV-HD600BD
C344 0.1
REC
PB
HPF
LIM
NLE DTE
R
1/2
1/6
R-GEN
FSD
VBLK
VBLK GEN
ROT
HSS
1/40
ART SYNC
SKEW
SLD
GATE
DO
ENV
FM DEMOD
D-LIM
DET
MOD
EE VV TRICK
LP SP
EDIT YNRDFF NORMAL
PBS PBV REC
TO BM
4PHI
BM CONV GND
VCO GND
4.43M 3.58M/3.8M 3.58M/3.4M
R335 2200
C349 50V1
C350 0.033
R330 33K
C291 50V1
C342 0.01
R321 0
C343 0.01
R327 47K
R331 47K
D316 1SS254
QR303 MUN2213
R353 47K
C345 50V2.2
R332 10K
C348 3300P
C347 0.15
C357 0.1
C361 0.01
C359 0.1
C360 0.022
C358 0.1
C364 0.01
R341 100
IC302-47 PLAY
IC302-30,33 REC
IC302-30,33 PLAY 150mVp-p (20μsec. div)
IC302-34 REC 0.8Vp-p (20μsec. div)
IC302-13 REC/PLAY 2.8Vp-p (10μsec. div)
QR308 IMH5
22K
R344 22K
R355 39K
R361 22K
R372 10K
R380 2200
(NV-HD600BD) ONLY
L314 22μ
C362 0.1
C363 6V220
QR312 MUN2113
47K
L313 68μ
R362 0:NV-HD600A/EA 47K:NV-HD600BD
C355 0.1
C356 6V220
QR314 MUN2213
QR311 MUN2111
(NV-HD600A/BD) ONLY
10K
R358 10K
D314 1SS254
D315 1SS254
QR310 MUN2213
(NV-HD600EA) ONLY
(B10)
(B11)
(B22)
(B21)
(B6)
(B16)
(B13)
(S3)
(B14)
(B15)
(B9)
(B21)
(B22)
(B4)
(B1)
(B17)(B12)
(B5)
B-LINE
PK861
1 BG PULSE
2 REC CHROMA
3 GND
4
5 GND
6 SECAM Ⓗ
7 VIDEO 5V
C881 0.01
R881 22K
IC881 BA7025L
R882 39
R883 150K
R884 2200
C882 16V33
L881 100μ
C887 1
SW
L/M AMP
DET
COMP-1
COMP-2
REG
NC
C885 0.01
R886 10K
R885 1K
C884 0.056
C886 16V33
C883 10V47
T881 ELM7Q207A
SECAM KILLER
FL881 VLF0143
C888 47P
DDR SECAM PACK C.B.A.
(VEP03A02A: NV-HD600BD)
10
11
12
13
14
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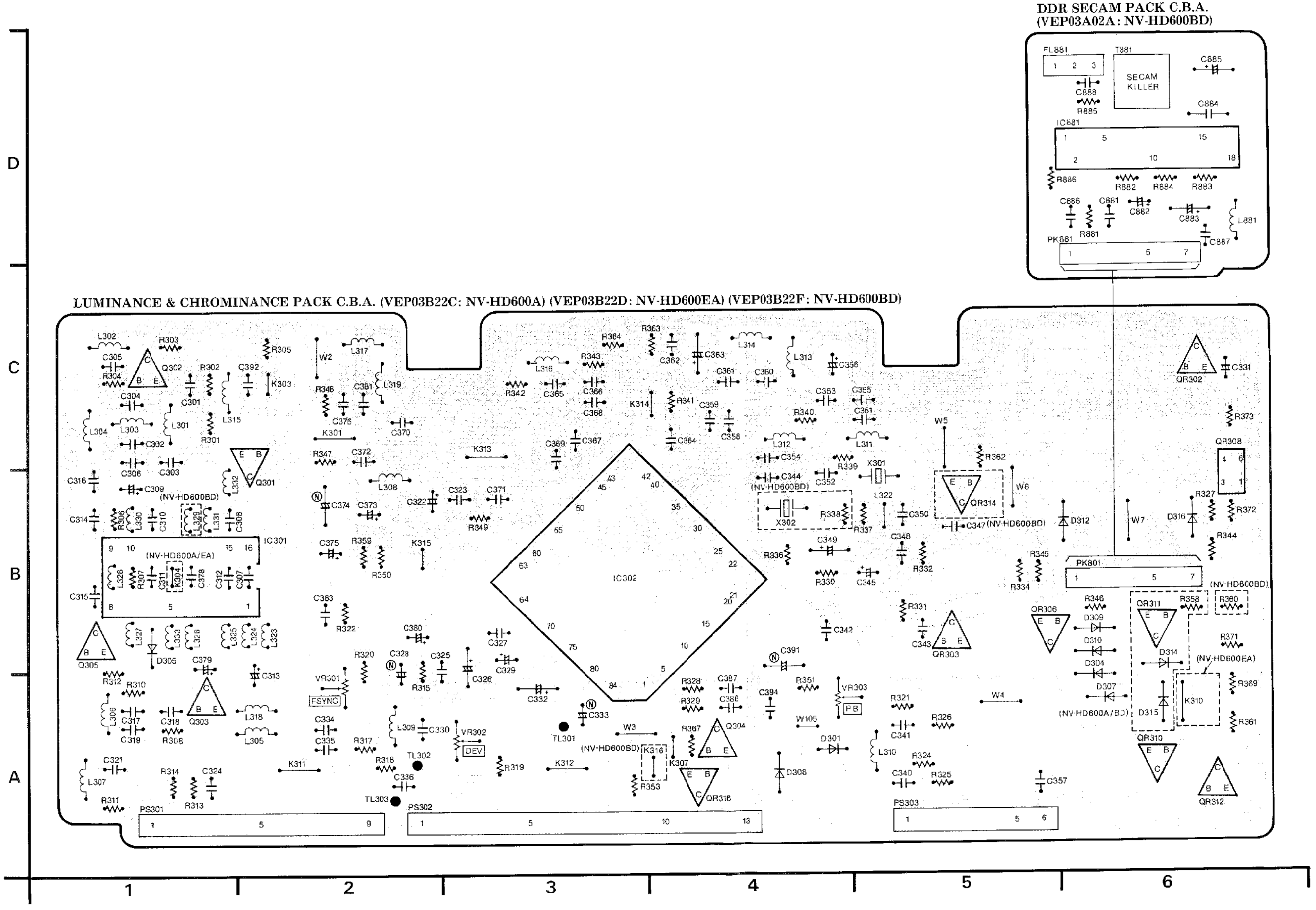
16
17
18
19
20

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

4-9 LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03B22C: NV-HD600A) (VEP03B22D: NV-HD600EA) (VEP03B22F: NV-HD600BD)



DDR SECAM PACK C.B.A.
(VEP03A02A: NV-HD600BD)

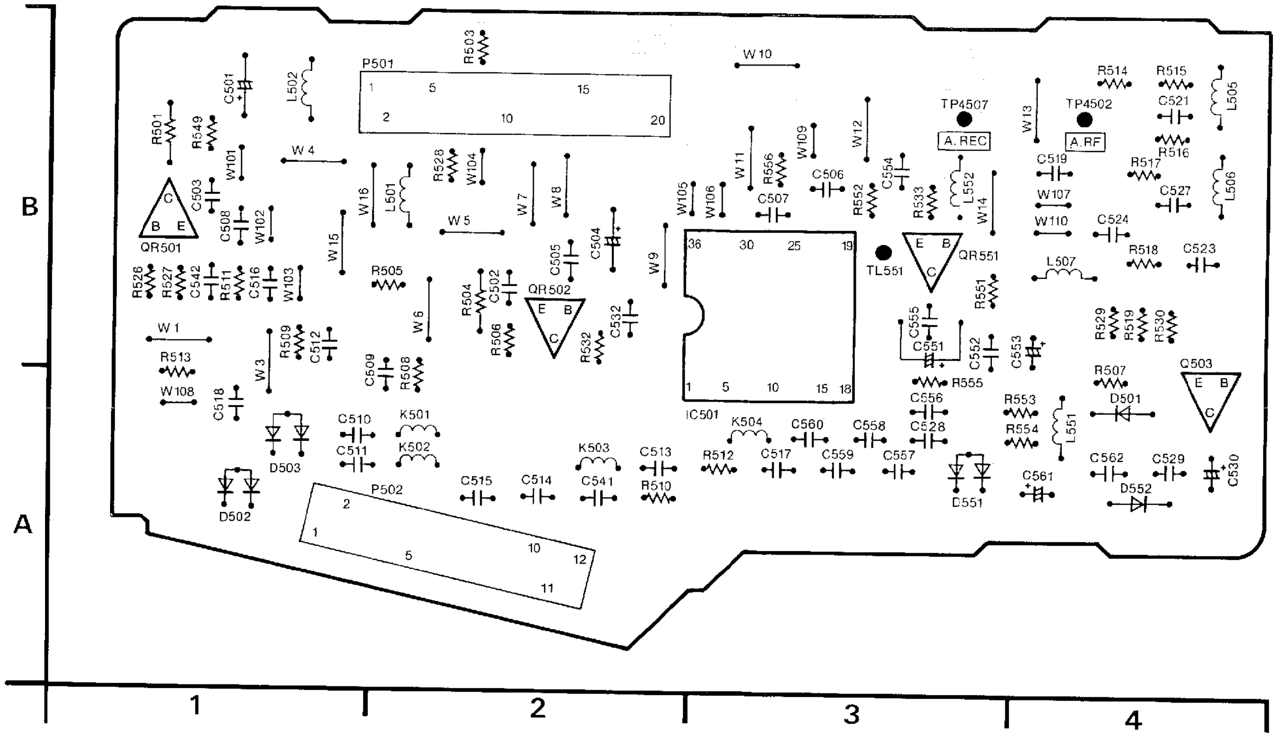
LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03B22C: NV-HD600A) (VEP03B22D: NV-HD600EA) (VEP03B22F: NV-HD600BD)

D
C
B
A
1
2
3
4
5
6
FL881
T881
SECAM KILLER
IC881
PK881
L881
IC301
(NV-HD600A/EA)
(NV-HD600BD)
IC302
PK801
PS301
PS302
PS303
VR301
FSYNC
VR302
DEV
VR303
PB
TL301
TL302
TL303
X301
X302
Q301
Q302
Q303
Q304
Q305
QR302
QR303
QR306
QR308
QR310
QR311
QR312
QR314
QR316
W2
W3
W4
W5
W6
W7
W105
(NV-HD600EA)
(NV-HD600A/BD)

LUMINANCE & CHROMINANCE PACK C.B.A.	
Transistor	
Q301	B-2
Q302	C-1
Q303	A-1
Q304	A-4
Q305	B-1
Transistor & Resistor	
QR302	C-6
QR303	B-5
QR306	B-5
QR308	C-6
QR310	A-6
QR311	B-6
QR312	A-6
QR314	B-5
QR316	A-4
Integrated Circuit	
IC301	B-2
IC302	A-3
IC881	D-6
Adjustment	
T881	D-6
VR301	A-2
VR302	A-3
VR303	A-4
Connector	
PK801	B-6
PK881	D-6
PS301	A-1
PS302	A-2
PS303	A-5

ADDRESS INFORMATION

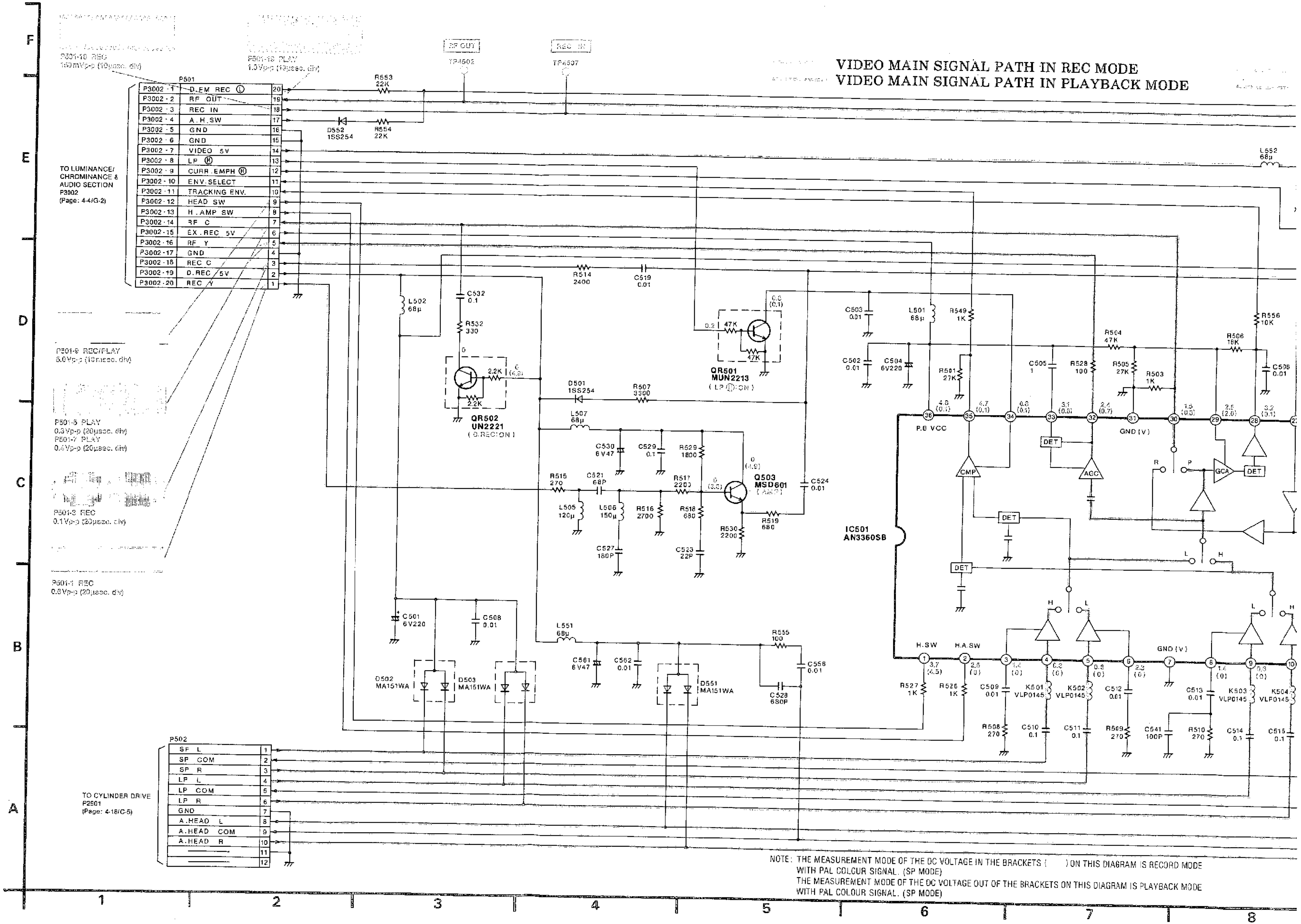
4-10. HEAD AMP C.B.A. (VEP05330A)


B
A
1
2
3
4
R501
R549
C501
L502
P501
1
5
15
2
10
20
R503
W10
W101
W4
C503
C508
W102
QR501
B
E
C
W16
L501
R528
W104
W5
W7
W8
W15
C504
C505
W9
R526
R527
C542
R511
C516
W103
R505
W6
R504
C502
QR502
E
B
C
R506
R532
C532
W1
R513
W108
C518
W3
R509
C512
C509
R508
D503
D502
C510
C511
K501
K502
P502
2
1
5
10
12
11
C515
C514
K503
C541
C513
R510
W105
W106
W11
R556
C507
W109
C506
W12
R552
C554
36
30
25
19
1
5
10
15
18
IC501
K504
R512
C560
C517
C558
C559
C557
TL551
TP4507
A. REC
R533
L552
W14
E
B
C
QR551
R551
C555
C551
C552
C553
R555
C556
C528
D551
R553
R554
L551
C561
W13
TP4502
A. RF
C519
W107
W110
C524
L507
R514
R515
C521
R516
R517
C527
R518
C523
L505
L506
R529
R519
R530
R507
D501
Q503
E
B
C
C562
C529
D552
C530

HEAD AMP C.B.A.	
Transistor	
Q503	A-4
Transistor & Resistor	
QR501 QR502 QR551	B-1 B-2 B-3
Integrated Circuit	
IC501	B-3
Test Point	
TL551 TP4502 TP4507	B-3 B-4 B-3
Connector	
P501 P502	B-2 A-2

ADDRESS INFORMATION

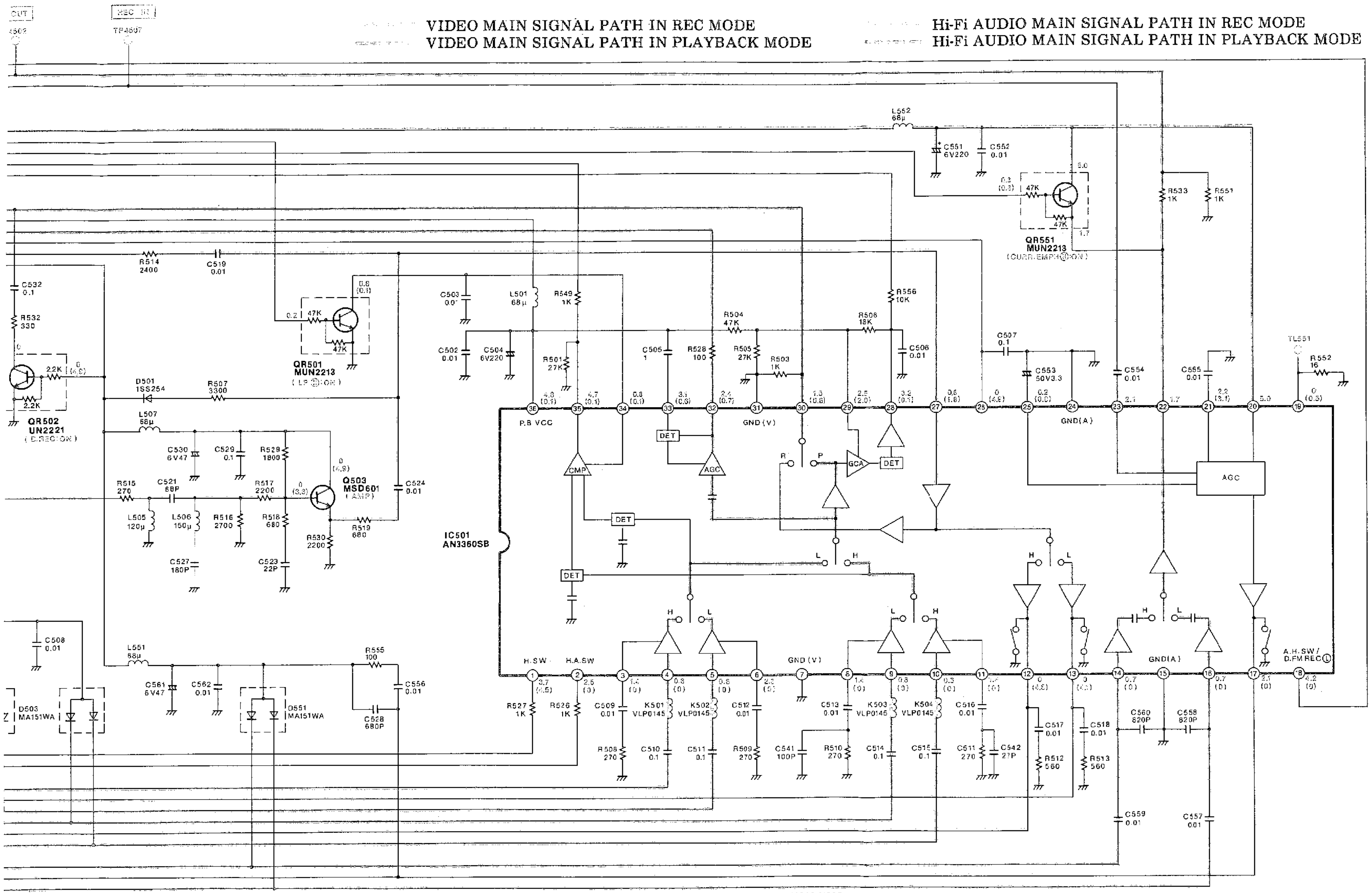
4-11 HEAD AMP SCHEMATIC DIAGRAM


VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
P501-18 REC
150mVp-p (10μsec. div)
P501-19 PLAY
1.0Vp-p (10μsec. div)
RF OUT
TP4502
REC IN
TP4507
P501
P3002 - 1 D.EM REC Ⓛ 20
P3002 - 2 RF OUT 19
P3002 - 3 REC IN 18
P3002 - 4 A.H.SW 17
P3002 - 5 GND 16
P3002 - 6 GND 15
P3002 - 7 VIDEO 5V 14
P3002 - 8 LP Ⓗ 13
P3002 - 9 CURR.EMPH Ⓗ 12
P3002 - 10 ENV.SELECT 11
P3002 - 11 TRACKING ENV. 10
P3002 - 12 HEAD SW 9
P3002 - 13 H.AMP SW 8
P3002 - 14 RF C 7
P3002 - 15 EX.REC 5V 6
P3002 - 16 RF Y 5
P3002 - 17 GND 4
P3002 - 18 REC C 3
P3002 - 19 D.REC 5V 2
P3002 - 20 REC Y 1
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION P3002 (Page: 4-4/G-2)
P501-9 REC/PLAY
5.0Vp-p (10μsec. div)
P501-5 PLAY
0.3Vp-p (20μsec. div)
P501-7 PLAY
0.4Vp-p (20μsec. div)
P501-3 REC
0.1Vp-p (20μsec. div)
P501-1 REC
0.8Vp-p (20μsec. div)
R553 22K
D552 1SS254
R554 22K
L552 68μ
R514 2400
C519 0.01
L502 68μ
C532 0.1
R532 330
QR502 UN2221 (D.REC:ON)
2.2K
2.2K
QR501 MUN2213 (LP Ⓗ:ON)
47K
47K
D501 1SS254
R507 3300
L507 68μ
C530 6V47
C529 0.1
R529 1800
R515 270
C521 68P
R517 2200
Q503 MSD601
C524 0.01
L505 120μ
L506 150μ
R516 2700
R518 680
R519 680
R530 2200
C527 180P
C523 22P
C503 0.01
L501 68μ
R549 1K
C502 0.01
C504 6V220
R501 27K
C505 1
R528 100
R504 47K
R505 27K
R503 1K
R506 18K
R556 10K
C506 0.01
P.B VCC
GND (V)
DET
CMP
AGC
GCA
R
P
L
H
IC501 AN3360SB
H.SW
H.A.SW
R527 1K
R526 1K
C509 0.01
K501 VLP0145
K502 VLP0145
C512 0.01
C513 0.01
K503 VLP0145
K504 VLP0145
R508 270
C510 0.1
C511 0.1
R509 270
C541 100P
R510 270
C514 0.1
C515 0.1
C501 6V220
C508 0.01
D502 MA151WA
D503 MA151WA
L551 68μ
C561 6V47
C562 0.01
D551 MA151WA
R555 100
C556 0.01
C528 680P
P502
SP L 1
SP COM 2
SP R 3
LP L 4
LP COM 5
LP R 6
GND 7
A.HEAD L 8
A.HEAD COM 9
A.HEAD R 10
11
12
TO CYLINDER DRIVE P2501 (Page: 4-18/C-5)
A
B
C
D
E
F
1
2
3
4
5
6
7
8

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

Hi-Fi AUDIO MAIN SIGNAL PATH IN REC MODE
Hi-Fi AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

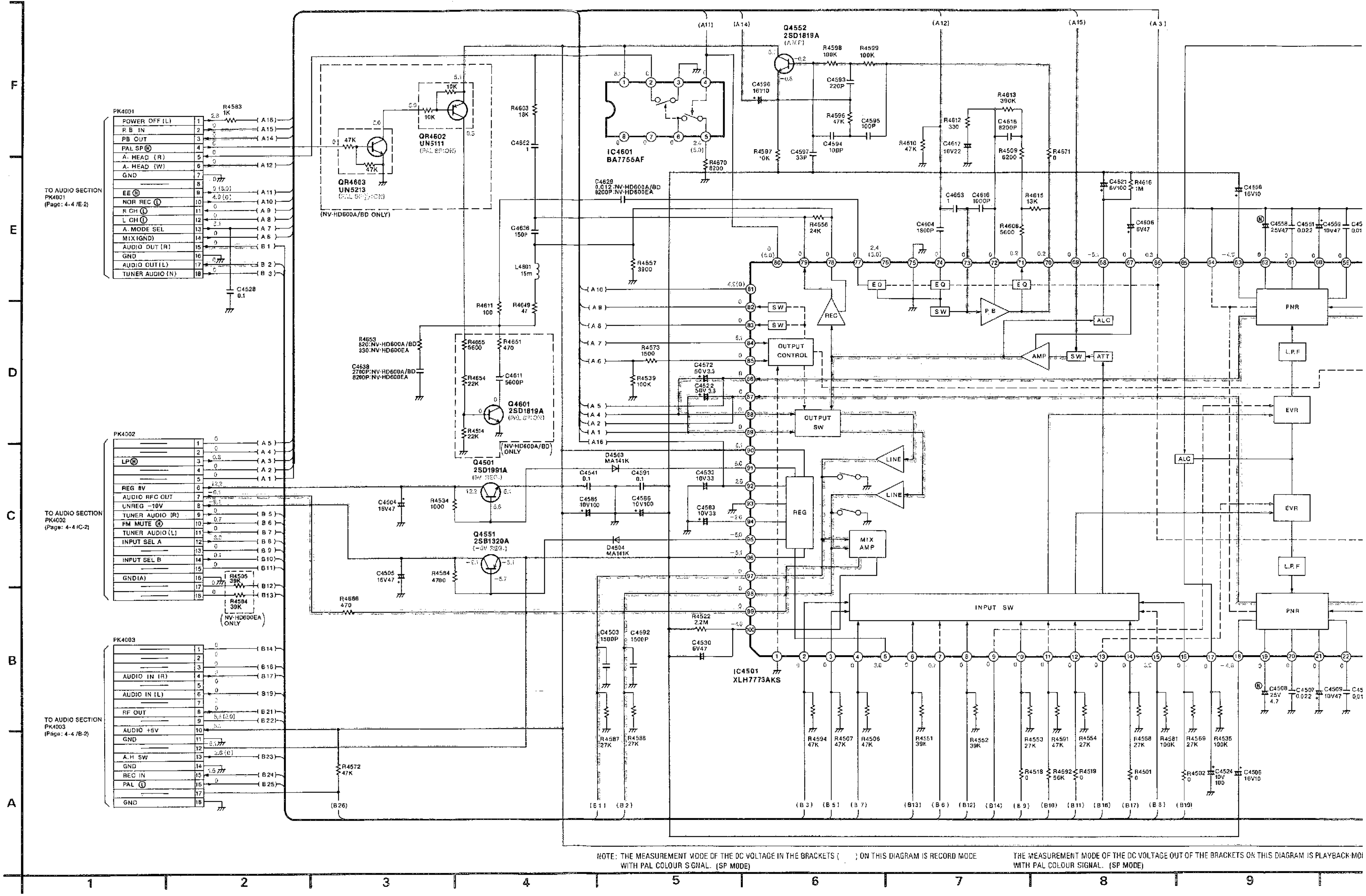

OUT
REC IN
TP4507
IC501
AN3360SB
QR502
UN2221
QR501
MUN2213
Q503
MSD601
(AMP)
QR551
MUN2213
D501
1SS254
D503
MA151WA
D551
MA151WA
R514 2400
C519 0.01
C532 0.1
R532 330
R507 3300
L507 68µ
C530 6V47
C529 0.1
R529 1800
R515 270
C521 68P
R517 2200
L505 120µ
L506 150µ
R516 2700
R518 680
R530 2200
R519 680
C524 0.01
C527 180P
C523 22P
C503 0.01
C502 0.01
C504 6V220
L501 68µ
R549 1K
R501 27K
C505 1
R528 100
R504 47K
R505 27K
R503 1K
R506 18K
R556 10K
C506 0.01
C507 0.1
C553 50V3.3
C554 0.01
C555 0.01
L552 68µ
C551 6V220
C552 0.01
R533 1K
R551 1K
TL551
R552 16
C508 0.01
L551 68µ
C561 6V47
C562 0.01
R555 100
C556 0.01
C528 680P
R527 1K
R526 1K
C509 0.01
R508 270
K501 VLP0145
C510 0.1
K502 VLP0145
C511 0.1
C512 0.01
R509 270
C541 100P
C513 0.01
R510 270
K503 VLP0145
C514 0.1
K504 VLP0145
C515 0.1
C516 0.01
C511 270
C542 27P
C517 0.01
R512 560
C518 0.01
R513 560
C560 820P
C558 820P
C559 0.01
C557 0.01
P.B VCC
GND(V)
GND(A)
H.SW
H.A.SW
A.H.SW/D.FM REC
CMP
DET
AGC
GCA
R
P
H
L
4
5
6
7
8
9
10

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-12 Hi-Fi AUDIO PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN I

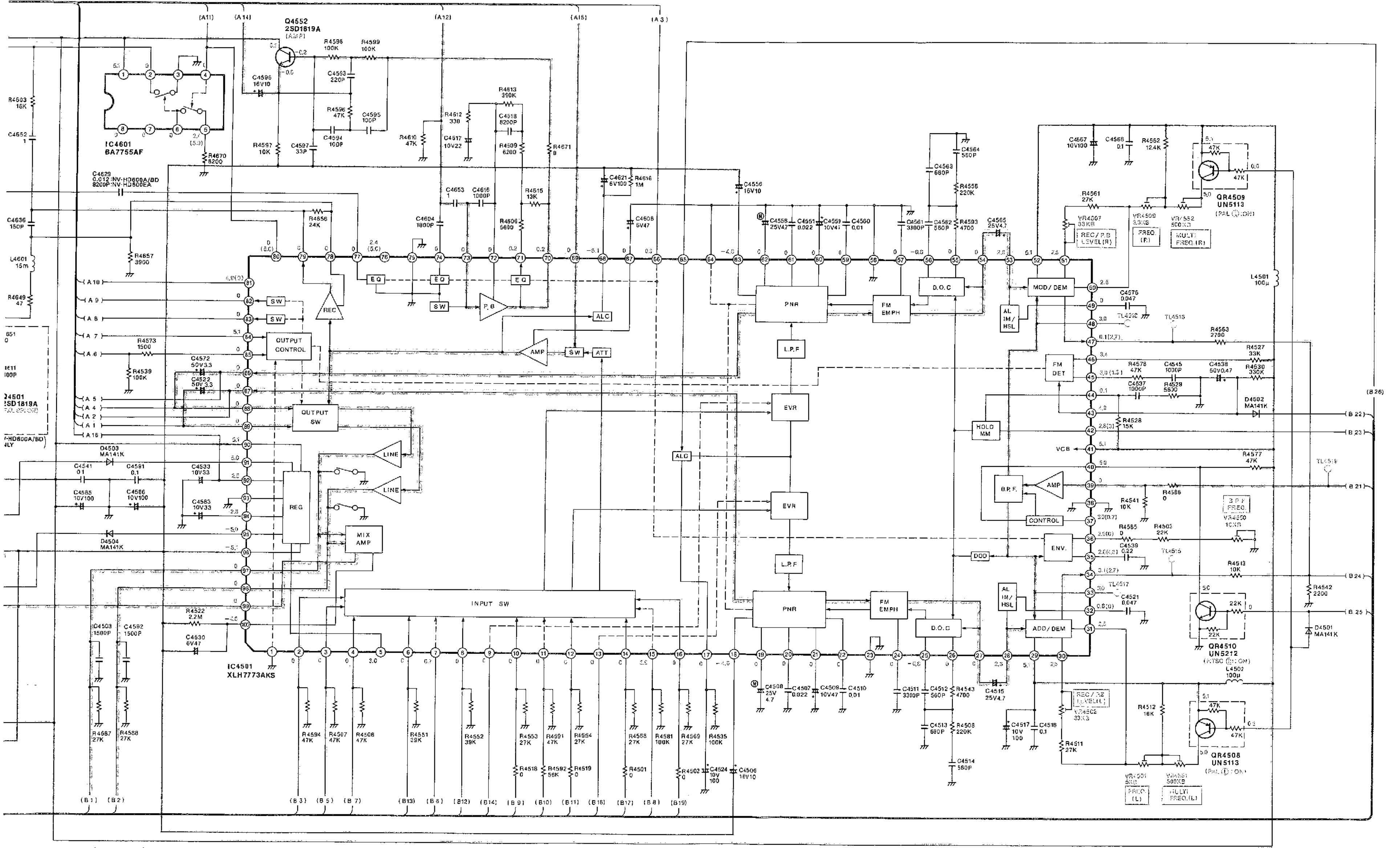

PK4001
POWER OFF (L)
P.B IN
PB OUT
PAL SP Ⓗ
A. HEAD (R)
A. HEAD (W)
GND
EE Ⓗ
NOR REC Ⓛ
R CH Ⓛ
L CH Ⓛ
A. MODE SEL
MIX(GND)
AUDIO OUT (R)
GND
AUDIO OUT(L)
TUNER AUDIO (N)
TO AUDIO SECTION PK4001 (Page: 4-4 /E-2)
PK4002
LP Ⓗ
REG 8V
AUDIO REC OUT
UNREG -10V
TUNER AUDIO (R)
FM MUTE Ⓗ
TUNER AUDIO (L)
INPUT SEL A
INPUT SEL B
GND(A)
TO AUDIO SECTION PK4002 (Page: 4-4 /C-2)
PK4003
AUDIO IN (R)
AUDIO IN (L)
RF OUT
AUDIO +5V
GND
A.H SW
GND
REC IN
PAL Ⓛ
GND
TO AUDIO SECTION PK4003 (Page: 4-4 /B-2)
QR4603 UN5213 (PAL SP(ON))
QR4602 UN5111 (PAL SP(ON))
(NV-HD600A/BD ONLY)
IC4601 BA7755AF
Q4552 2SD1819A (AMP)
Q4601 2SD1819A (PAL SP(ON))
(NV-HD600A/BD ONLY)
Q4501 2SD1991A (5V REG.)
Q4551 2SB1320A (-5V REG.)
D4503 MA141K
D4504 MA141K
IC4501 XLH7773AKS
R4653 820:NV-HD600A/BD 330:NV-HD600EA
C4638 2700P:NV-HD600A/BD 8200P:NV-HD600EA
C4629 0.012:NV-HD600A/BD 8200P:NV-HD600EA
R4505 39K
R4504 39K
(NV-HD600EA ONLY)
REC
PB
EQ
SW
AMP
ALC
ATT
OUTPUT CONTROL
OUTPUT SW
LINE
REG
MIX AMP
INPUT SW
PNR
L.P.F
EVR
1
2
3
4
5
6
7
8
9
A
B
C
D
E
F

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MO
WITH PAL COLOUR SIGNAL. (SP MODE)

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE


IC4601
BA7755AF
Q4552
2SD1819A
(AMP)
IC4501
XLH7773AKS
QR4509
UN5113
QR4510
UN5212
QR4508
UN5113
OUTPUT CONTROL
OUTPUT SW
REC
P.B
EQ
SW
ALC
ATT
AMP
LINE
MIX AMP
REG
INPUT SW
PNR
FM EMPH
D.O.C
MOD/DEM
ADD/DEM
AL IM/ HSL
L.P.F
EVR
FM DET
HOLD MM
B.P.F.
CONTROL
ENV.
DOD
VCB
REC/P.B LEVEL(R)
FREQ (R)
MULTI FREQ.(R)
REC/P.B LEVEL(L)
FREQ (L)
MULTI FREQ.(L)
3 P.F FREQ.
D4501
MA141K
D4502
MA141K
D4503
MA141K
D4504
MA141K
L4501
100μ
L4502
100μ
L4601
15m
(A 1)
(A 2)
(A 3)
(A 4)
(A 5)
(A 6)
(A 7)
(A 8)
(A 9)
(A 10)
(A11)
(A12)
(A14)
(A15)
(A 16)
(B 1)
(B 2)
(B 3)
(B 5)
(B 7)
(B13)
(B 6)
(B12)
(B14)
(B 9)
(B10)
(B11)
(B16)
(B17)
(B 8)
(B19)
(B 21)
(B 22)
(B 23)
(B 24)
(B 25)
(B 26)
4
5
6
7
8
9
10
11
12
13

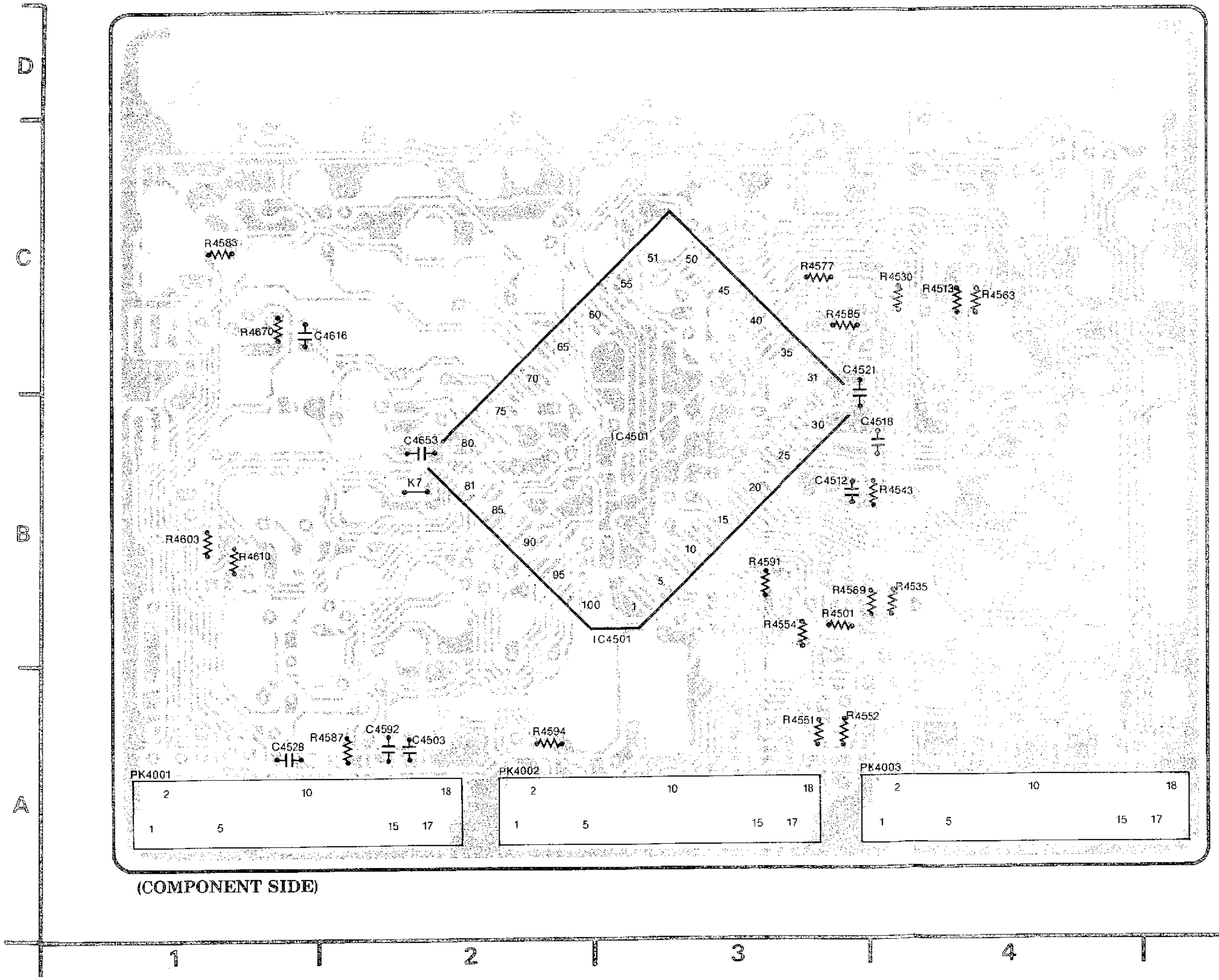
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

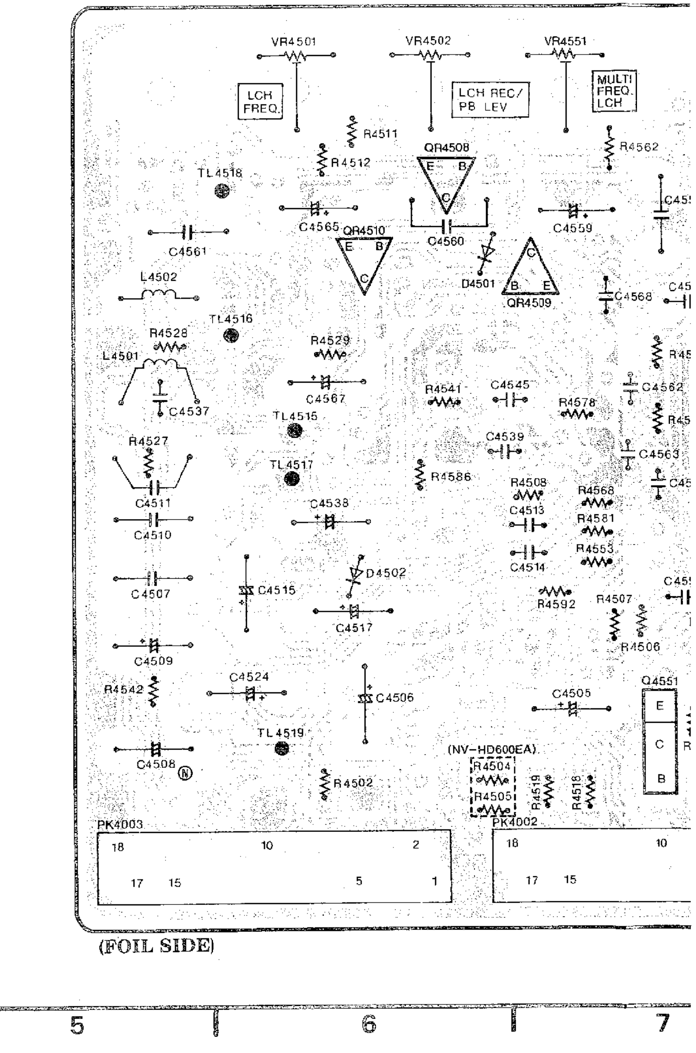
• LINE IN SIGNAL LEVEL…−10dB 1kHz

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

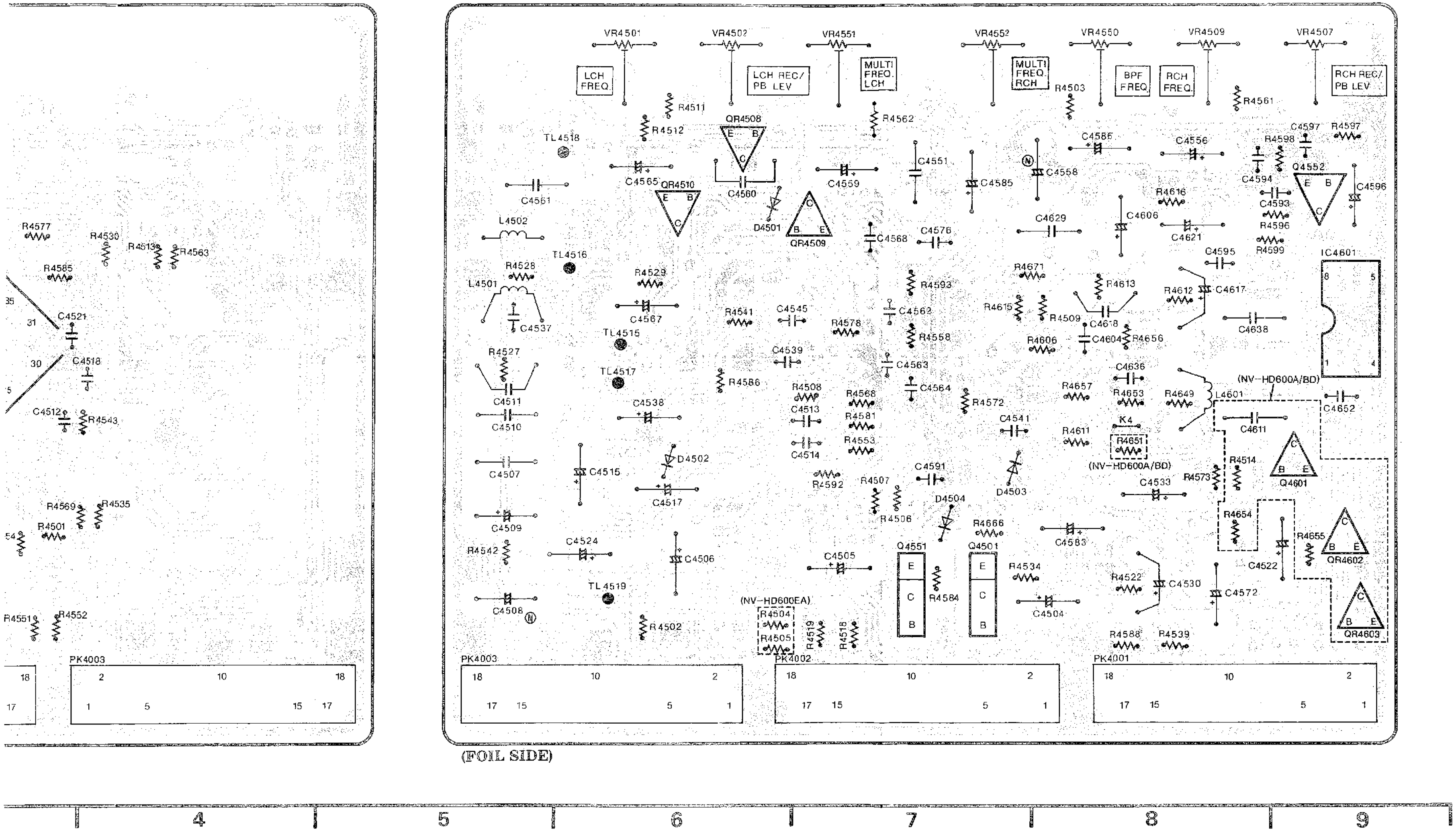
4-13 Hi-Fi AUDIO PACK C.B.A. (VEP04447PM: NV-HD600A/BD) (VEP04447PL: NV-HD600EA)


D
C
B
A
1
2
3
4
IC4501
1
5
10
15
20
25
30
31
35
40
45
50
51
55
60
65
70
75
80
81
85
90
95
100
R4583
R4670
C4616
C4653
K7
R4603
R4610
R4577
R4530
R4513
R4563
R4585
C4521
C4518
C4512
R4543
R4591
R4569
R4535
R4501
R4554
R4551
R4552
C4528
R4587
C4592
C4503
R4594
PK4001
PK4002
PK4003
2
10
18
1
5
15
17

(COMPONENT SIDE)


VR4501
VR4502
VR4551
LCH FREQ.
LCH REC/ PB LEV
MULTI FREQ. LCH
R4511
R4512
R4562
QR4508
QR4510
QR4509
E
B
C
TL4518
TL4516
TL4515
TL4517
TL4519
C4565
C4560
C4559
C4561
D4501
L4502
C4568
R4528
R4529
L4501
C4537
C4567
R4541
C4545
R4578
C4562
C4563
R4527
C4539
R4586
C4511
C4538
R4508
R4568
C4513
R4581
C4510
R4553
C4514
D4502
C4507
C4515
C4517
R4592
R4507
R4506
C4509
R4542
C4524
C4506
C4505
Q4551
C4508
R4502
(NV-HD600EA)
R4504
R4505
R4519
R4518
PK4003
PK4002
18
10
2
17
15
5
1
5
6
7

(FOIL SIDE)

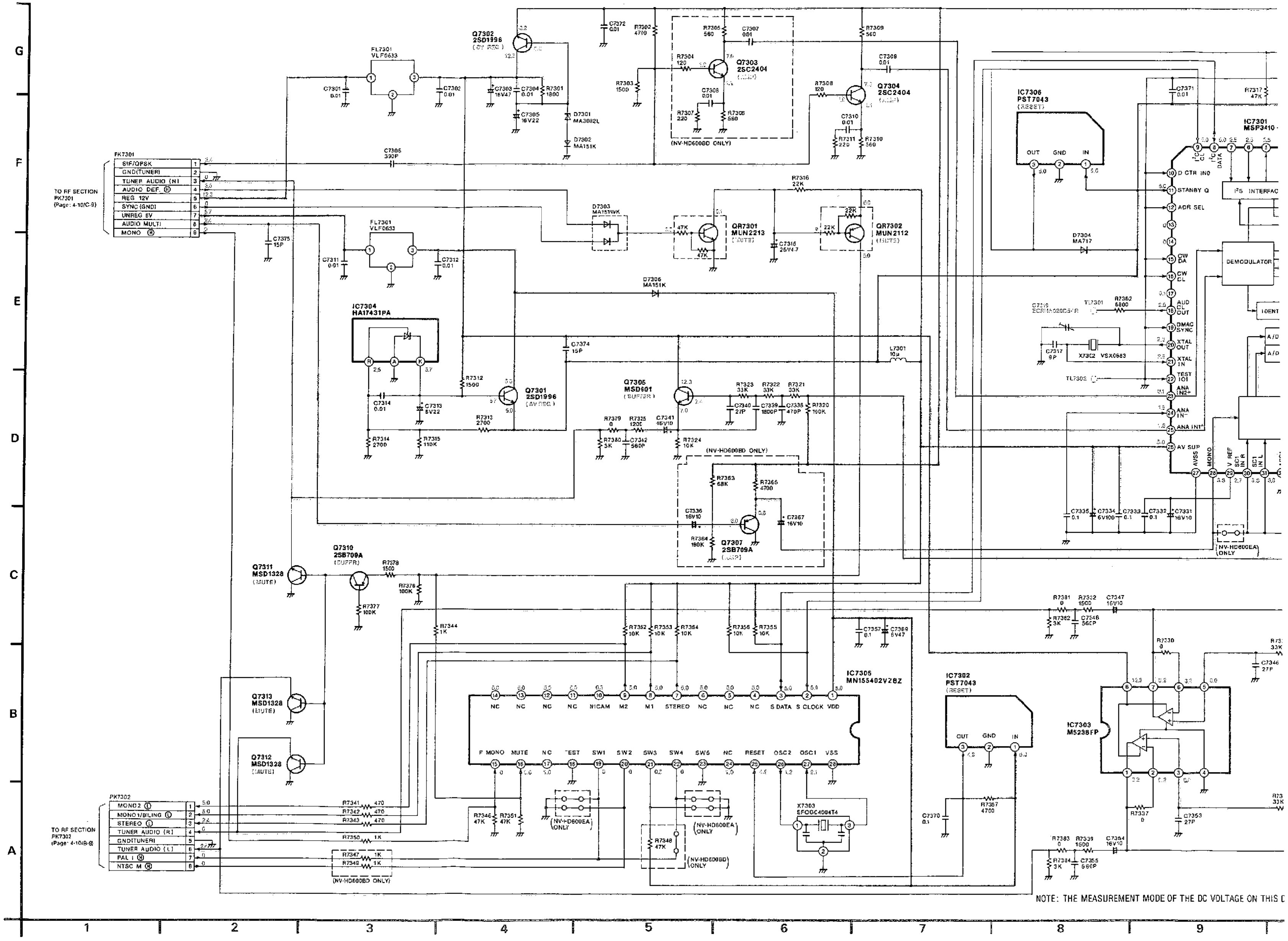

VR4501
VR4502
VR4551
VR4552
VR4550
VR4509
VR4507
LCH FREQ.
LCH REC/ PB LEV
MULTI FREQ. LCH
MULTI FREQ. RCH
BPF FREQ.
RCH FREQ.
RCH REC/ PB LEV
QR4508
QR4509
QR4510
QR4602
QR4603
Q4501
Q4551
Q4552
Q4601
IC4601
L4501
L4502
L4601
D4501
D4502
D4503
D4504
TL4515
TL4516
TL4517
TL4518
TL4519
K4
(NV-HD600A/BD)
(NV-HD600EA)
PK4001
PK4002
PK4003
18
17
15
10
5
2
1
4
5
6
7
8
9

(FOIL SIDE)

Hi-Fi AUDIO PACK C.B.A.	
Transistor	
Q4501	A-7
Q4551	A-7
Q4552	C-9
Q4601	B-9
Transistor & Resistor	
QR4508	C-6
QR4509	C-7
QR4510	C-6
QR4602	B-9
QR4603	A-9
Integrated Circuit	
IC4501	B-3
IC4601	C-9
Test Point	
TL4515	B-6
TL4516	C-5
TL4517	B-6
TL4518	C-5
TL4519	A-6
Adjustment	
VR4501	D-6
VR4502	D-6
VR4507	D-9
VR4509	D-8
VR4550	D-8
VR4551	D-7
VR4552	D-7
Connector	
PK4001	A-1
PK4001	A-8
PK4002	A-2
PK4002	A-7
PK4003	A-4
PK4003	A-5

ADDRESS INFORMATION

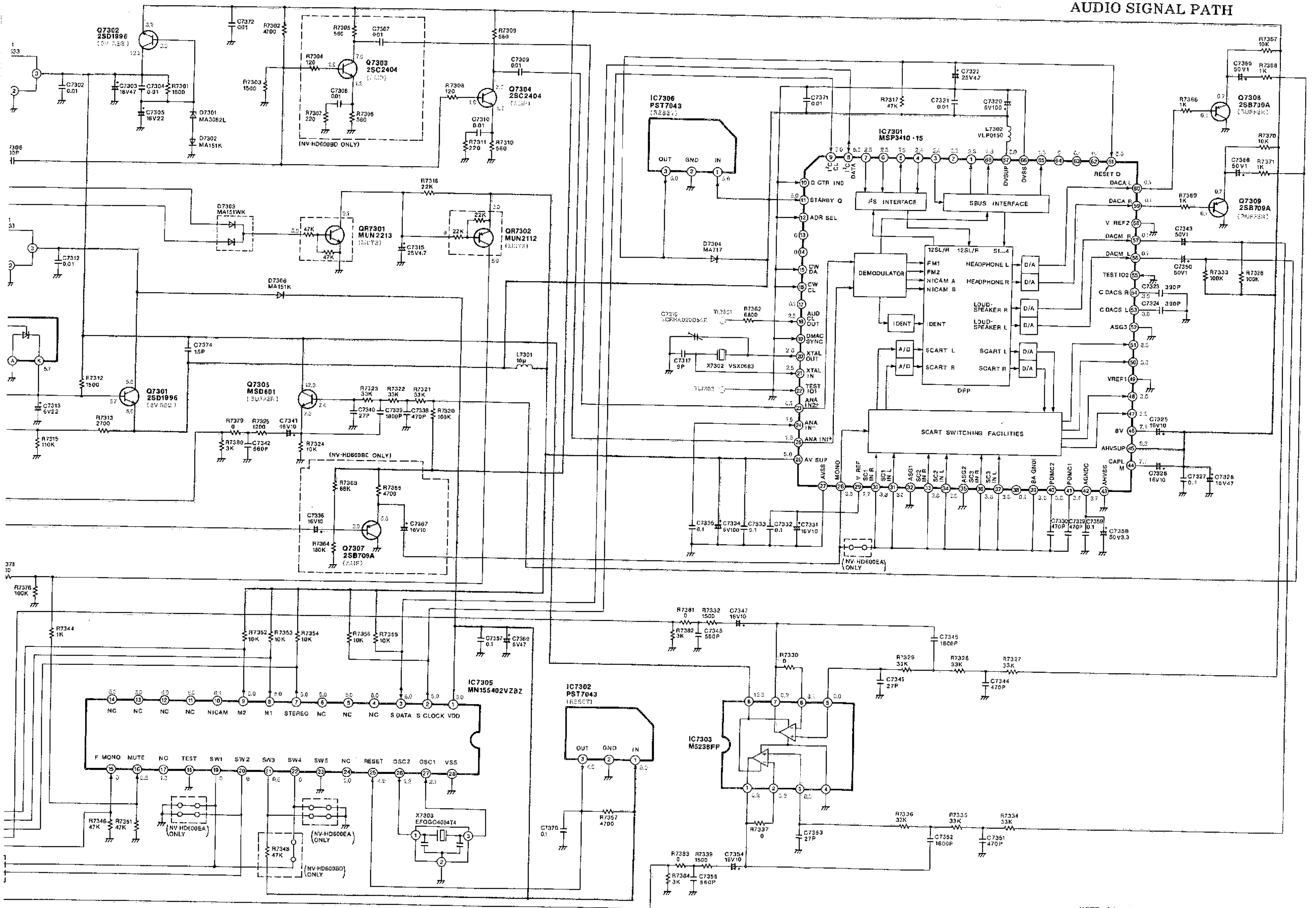
4-18 NICAM DECODER PACK SCHEMATIC DIAGRAM


G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
PK7301
SIF/QPSK
GND(TUNER)
TUNER AUDIO (N)
AUDIO DEF.
REG 12V
SYNC (GND)
UNREG 5V
AUDIO MULTI
MONO
TO RF SECTION PK7301 (Page 4-10(C-9))
PK7302
MONO2
MONO1/BILING
STEREO
TUNER AUDIO (R)
GND(TUNER)
TUNER AUDIO (L)
PAL I
NTSC M
TO RF SECTION PK7302 (Page 4-10(B-9))
FL7301 VLF0633
Q7302 2SD1996
Q7303 2SC2404
Q7304 2SC2404
(NV-HD600BD ONLY)
IC7306 PST7043
IC7301 MSP3410
D7303 MA151WK
QR7301 MUN2213 (MUTE)
QR7302 MUN2112
D7306 MA151K
D7304 MA717
IC7304 HA17431PA
Q7301 2SD1996 (AV REG.)
Q7305 MSD601 (BUFFER)
Q7307 2SB709A
Q7310 2SB709A (BUFFER)
Q7311 MSD1328 (MUTE)
Q7313 MSD1328 (MUTE)
Q7312 MSD1328 (MUTE)
IC7305 MN155402VZBZ
IC7302 PST7043 (RESET)
IC7303 M5238FP
X7303 EFOGC4004T4
X7302 VSX0683
L7301 10μ
DEMODULATOR
(NV-HD600EA) ONLY
NC
NICAM
M2
M1
STEREO
S DATA
S CLOCK
VDD
F MONO
MUTE
TEST
SW1
SW2
SW3
SW4
SW5
RESET
OSC2
OSC1
VSS
OUT
GND
IN
D CTR INQ
STANBY Q
ADR SEL
CW DA
CW CL
AUD CL OUT
DMAC SYNC
XTAL OUT
XTAL IN
TEST IO1
ANA IN2+
ANA IN-
ANA IN1+
AV SUP
AVSS
MONO
V REF
SC1 IN R
SC1 IN L

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS C

TIC DIAGRAM

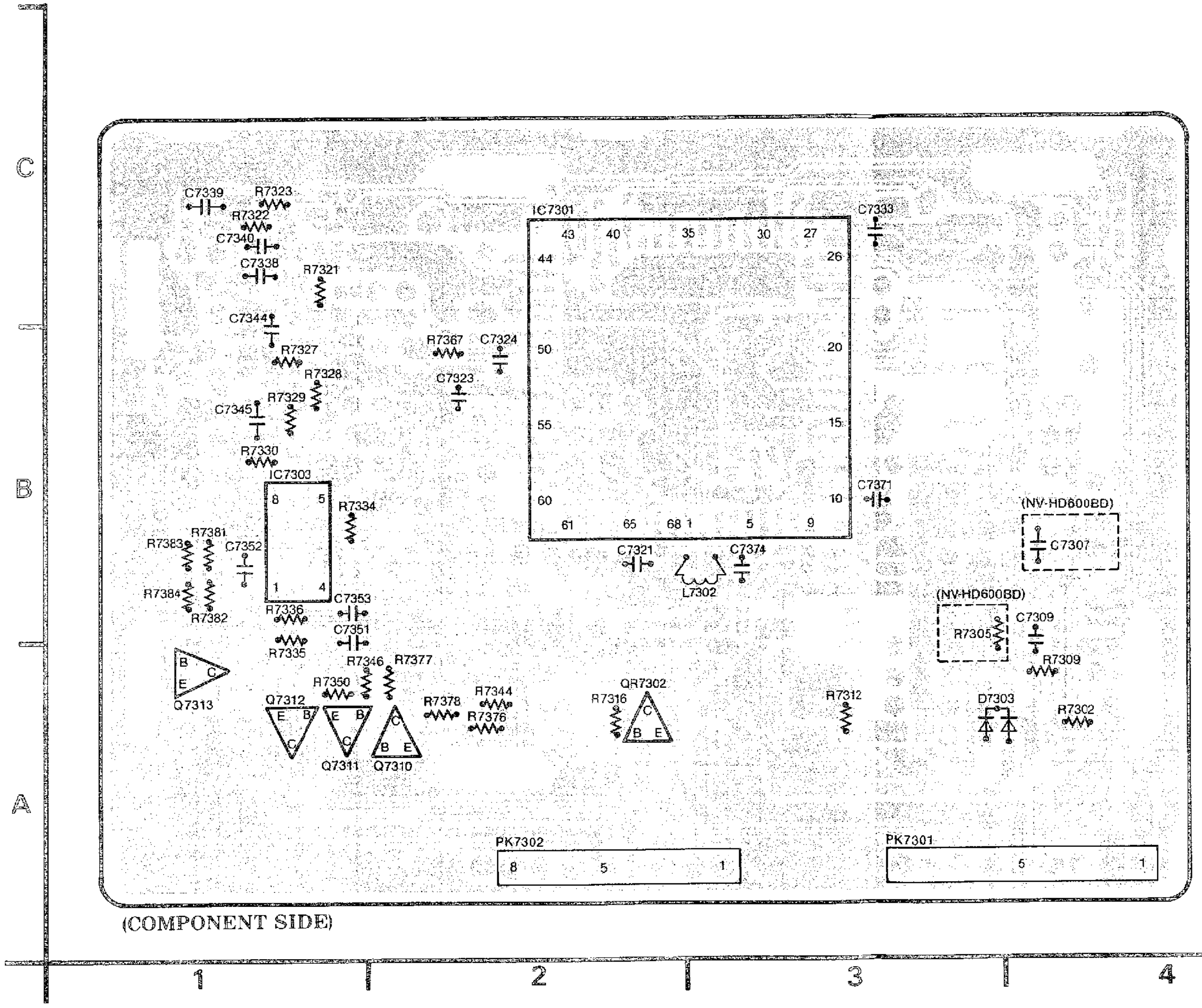
AUDIO SIGNAL PATH


Q7302
2SD1996
Q7303
2SC2404
Q7304
2SC2404
(NV-HD600BD ONLY)
QR7301
MUN2213
QR7302
MUN2112
D7301
MA3062L
D7302
MA151K
D7303
MA151WK
D7306
MA151K
Q7301
2SD1996
Q7305
MSD601
(BUFFER)
Q7307
2SB709A
(NV-HD600BD ONLY)
L7301
10μ
IC7306
PST7043
(RESET)
D7304
MA717
X7302 VSX0683
IC7301
MSP3410 -15
L7302
VLP0150
I²S INTERFACE
SBUS INTERFACE
DEMODULATOR
IDENT
A/D
D/A
FM1
FM2
NICAM A
NICAM B
HEADPHONE L
HEADPHONE R
LOUD-SPEAKER R
LOUD-SPEAKER L
SCART L
SCART R
DFP
SCART SWITCHING FACILITIES
D CTR INQ
STANBY Q
ADR SEL
CW DA
CW CL
AUD CL OUT
DMAC SYNC
XTAL OUT
XTAL IN
TEST I01
ANA IN2+
ANA IN-
ANA IN1+
AV SUP
AVSS
MONO
V REF
SC1 IN R
SC1 IN L
ASG1
SC2 IN R
SC2 IN L
ASG2
SC3 IN R
SC3 IN L
8A GNDI
POMC2
POMC1
AGNDC
AHVSS
CAPL M
AHVSUP
8V
VREF1
ASG3
C DACS L
C DACS R
TEST I02
DACM L
DACM R
V REF2
DACA R
DACA L
RESET Q
DVSS
DVSUP
Q7308
2SB709A
(BUFFER)
Q7309
2SB709A
(BUFFER)
(NV-HD600EA) ONLY
IC7305
MN155402VZBZ
NC
NICAM
M2
M1
STEREO
S DATA
S CLOCK
VDD
F MONO
MUTE
TEST
SW1
SW2
SW3
SW4
SW5
RESET
OSC2
OSC1
VSS
X7303
EFOGC4004T4
(NV-HD600EA) ONLY
(NV-HD600BD) ONLY
IC7302
PST7043
(RESET)
OUT
GND
IN
IC7303
M5238FP
4
5
6
7
8
9
10
11
12

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

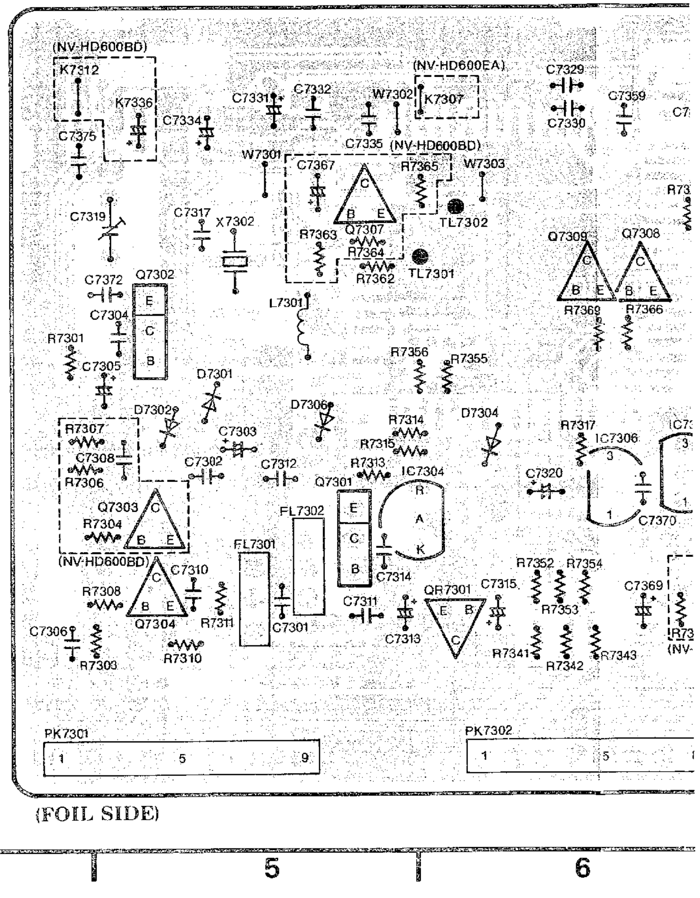
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-19. NICAM DECODER PACK C.B A. (VEP07787E: NV-HD600EA) (VEP07787C: NV-HD600BD)



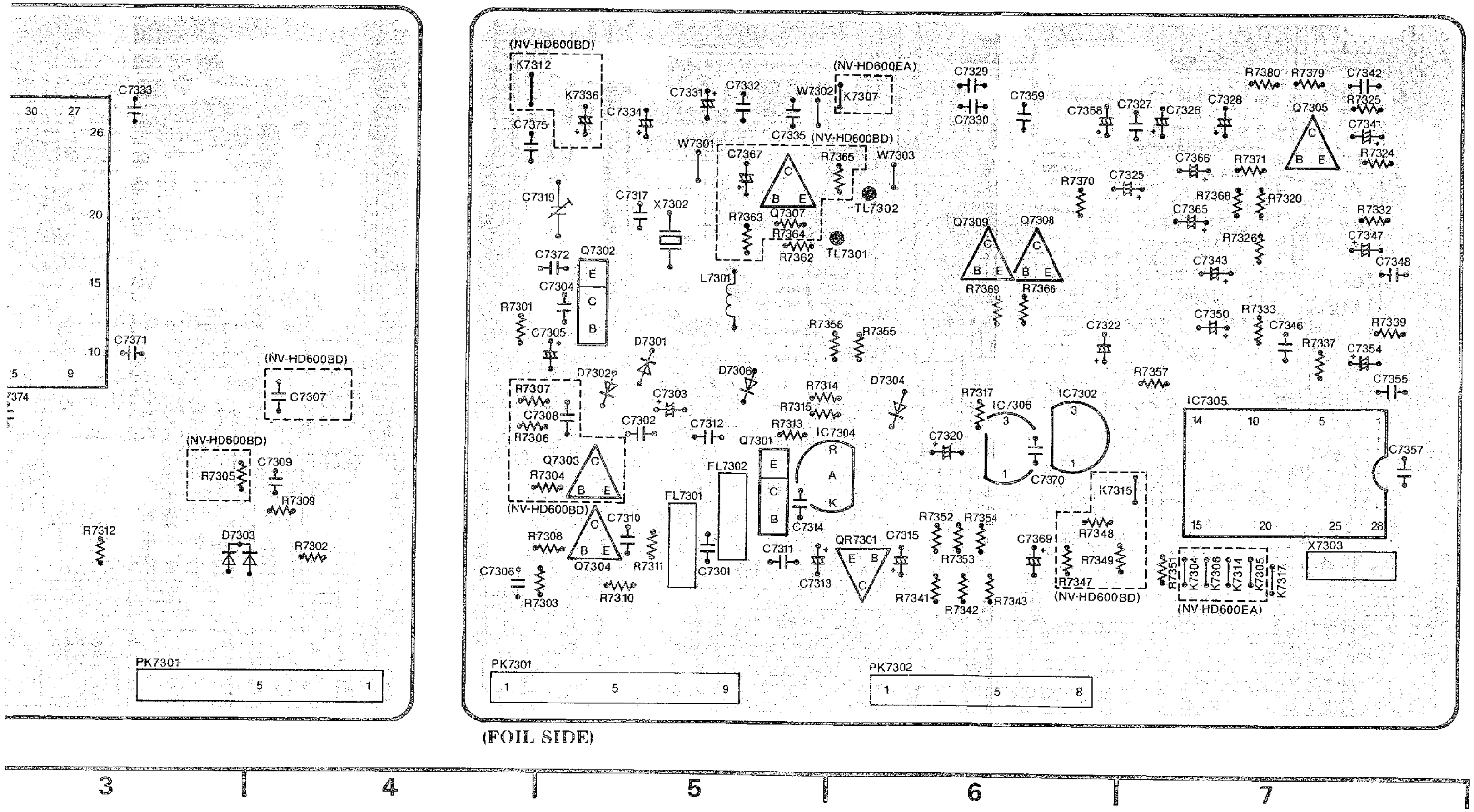
C
B
A
1
2
3
4
IC7301
IC7303
C7339
R7323
R7322
C7340
C7338
R7321
C7344
R7327
R7328
R7329
C7345
R7330
R7334
R7381
R7383
C7352
R7384
R7382
R7336
C7353
C7351
R7335
R7346
R7377
R7350
Q7312
Q7311
Q7310
Q7313
R7378
R7344
R7376
R7367
C7324
C7323
C7333
C7371
C7321
C7374
L7302
QR7302
R7316
R7312
(NV-HD600BD)
C7307
R7305
C7309
R7309
D7303
R7302
PK7302
PK7301

(COMPONENT SIDE)



5
6
(NV-HD600BD)
(NV-HD600EA)
K7312
K7336
C7375
C7334
C7331
C7332
W7302
K7307
C7335
W7301
C7367
R7365
W7303
TL7302
TL7301
C7319
C7317
X7302
Q7307
R7363
R7364
R7362
C7372
Q7302
C7304
R7301
C7305
L7301
D7301
D7302
D7306
R7307
C7308
R7306
C7303
C7302
C7312
Q7303
R7304
Q7304
C7310
R7308
R7311
R7310
C7306
R7303
FL7301
FL7302
C7301
Q7301
C7311
C7313
C7314
R7313
R7314
R7315
IC7304
D7304
R7356
R7355
QR7301
C7315
R7352
R7354
R7353
R7341
R7342
R7343
C7369
R7317
IC7306
C7320
C7370
Q7309
Q7308
R7369
R7366
C7329
C7330
C7359
PK7301
PK7302

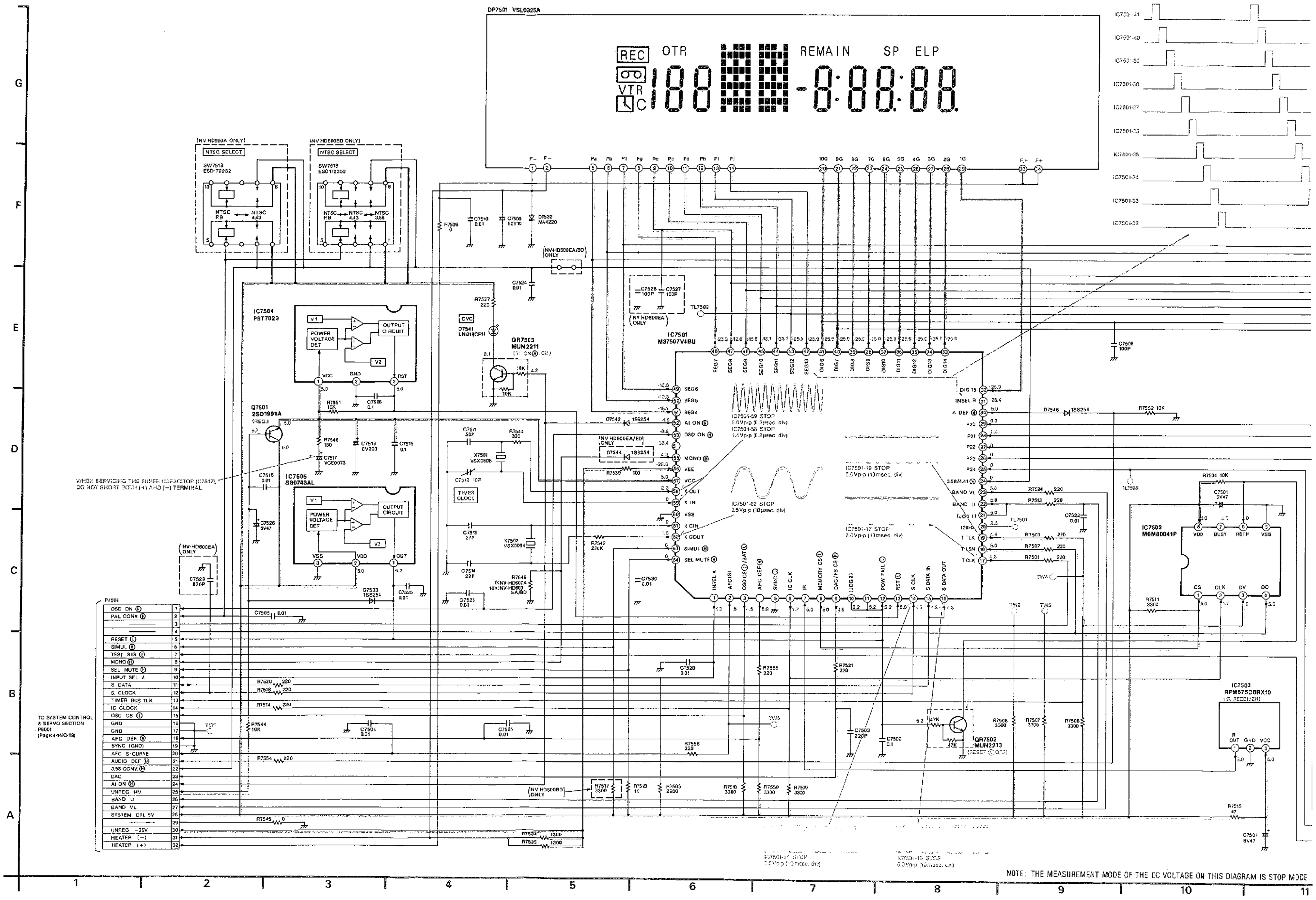
(FOIL SIDE)


(NV-HD600BD)
K7312
K7336
C7375
C7334
C7331
C7332
W7302
(NV-HD600EA)
K7307
C7335 (NV-HD600BD)
W7301
W7303
C7367
R7365
Q7307
R7363
R7364
R7362
TL7302
TL7301
C7319
C7317
X7302
C7372
Q7302
C7304
R7301
C7305
L7301
D7301
D7302
D7306
C7303
C7302
C7312
R7307
C7308
R7306
Q7303
R7304
(NV-HD600BD)
R7308
Q7304
C7310
R7311
R7310
C7306
R7303
FL7301
FL7302
C7301
Q7301
R7356
R7355
R7314
R7315
R7313
IC7304
C7314
C7311
C7313
QR7301
C7315
D7304
C7329
C7330
C7359
Q7309
Q7308
R7369
R7366
R7370
C7358
C7327
C7326
C7325
C7328
C7366
C7365
R7371
R7368
R7320
R7326
C7343
C7322
R7317
IC7306
IC7302
C7320
C7370
R7352
R7354
R7353
R7341
R7342
R7343
C7369
K7315
R7348
R7349
R7347
(NV-HD600BD)
R7380
R7379
C7342
R7325
Q7305
C7341
R7324
R7332
C7347
C7348
C7350
R7333
C7346
R7337
R7339
C7354
C7355
R7357
IC7305
C7357
X7303
R7351
K7304
K7306
K7314
K7305
K7317
(NV-HD600EA)
C7333
C7371
(NV-HD600BD)
C7307
C7309
R7305
R7309
R7312
D7303
R7302
7374
PK7301
PK7302
(FOIL SIDE)
3
4
5
6
7

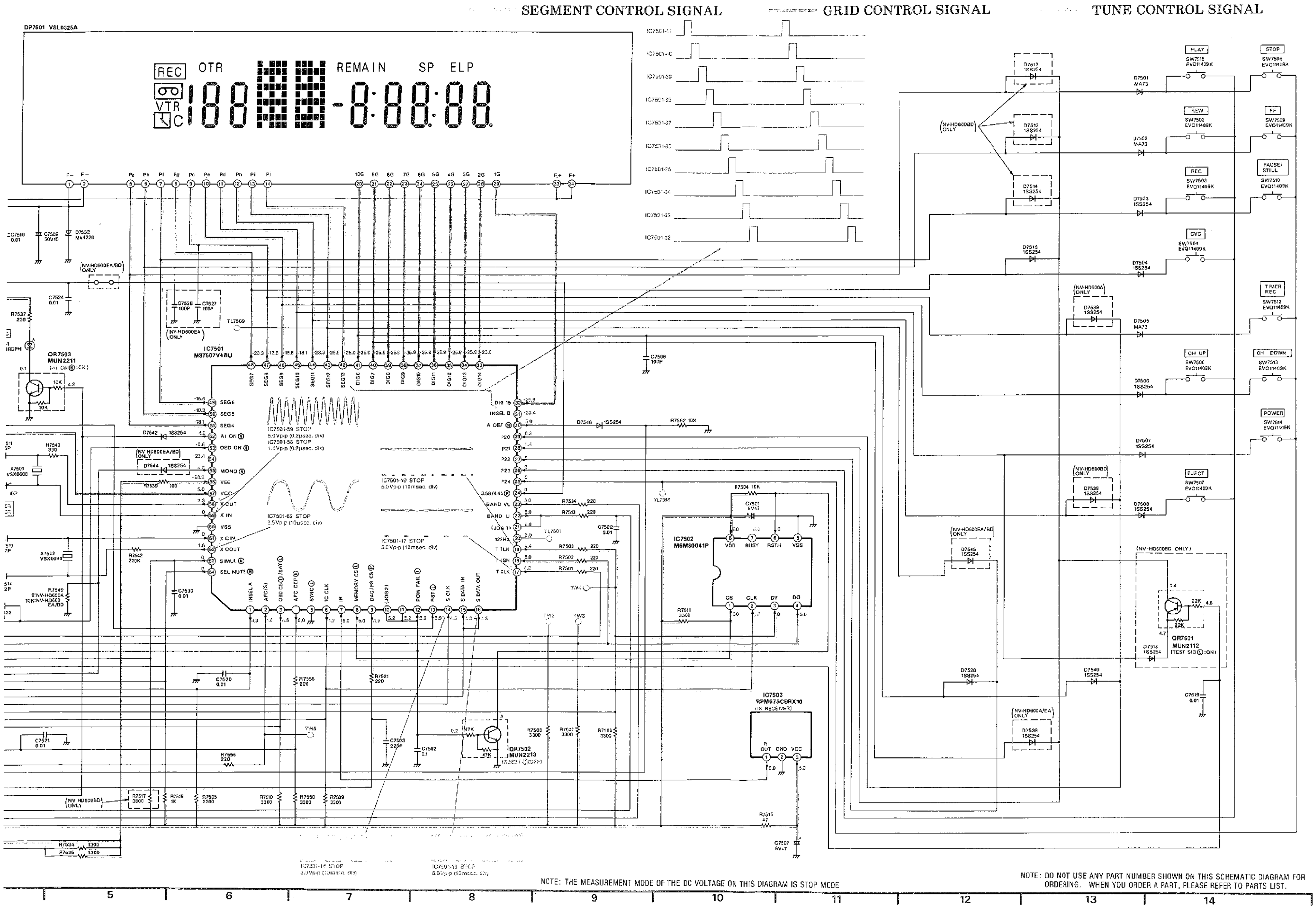
NICAM DECODER PACK C.B.A.	
Transistor	
Q7301	B-5
Q7302	B-5
Q7303	B-5
Q7304	A-5
Q7305	C-7
Q7307	B-5
Q7308	B-6
Q7309	B-6
Q7310	A-2
Q7311	A-1
Q7312	A-1
Q7313	A-1
Transistor & Resistor	
QR7301	A-6
QR7302	A-2
Integrated Circuit	
IC7301	C-2
IC7302	B-6
IC7303	B-1
IC7304	B-6
IC7305	B-7
IC7306	B-6
Test Point	
TL7301	B-6
TL7302	C-6
Adjustment	
C7319	B-5
Connector	
PK7301	A-3
PK7301	A-5
PK7302	A-2
PK7302	A-6

ADDRESS INFORMATION

4-20. TIMER SCHEMATIC DIAGRAM


SEGMENT CONTROL SIGNAL
GR
DP7501 VSL0325A
REC OTR REMAIN SP ELP
VTR
IC7501 M37507V4BU
IC7502 M6M80041P
IC7503 RPM675CBRX10
IC7504 PST7023
IC7505 S80743AL
Q7501 2SD1991A
QR7502 MUN2213
QR7503 MUN2211
SW7518 ESD172252
SW7519 ESD172352
NTSC SELECT
(NV-HD600A ONLY)
(NV-HD600BD ONLY)
POWER VOLTAGE DET
OUTPUT CIRCUIT
TIMER CLOCK
SEG7 SEG8 SEG9 SEG10 SEG11 SEG12 SEG13 DIG6 DIG7 DIG8 DIG9 DIG10 DIG11 DIG12 DIG13 DIG14
SEG6 SEG5 SEG4 AI ON Ⓗ OSD ON Ⓗ MONO Ⓗ VEE VCC X OUT X IN VSS X CIN X COUT SIMUL Ⓗ SEL MUTE Ⓗ
INSEL A AFC(S) OSD CSⓁ/SATⓁ AFC DEF Ⓗ SYNC Ⓛ IC CLK IR MEMORY CS Ⓛ DAC/FS CS Ⓗ (JOG 2) POW FAIL Ⓛ RST Ⓛ S CLK S DATA IN S DATA OUT
DIG 15 INSEL B A DEF Ⓗ P20 P21 P22 P23 P24 3.58/4.43 Ⓗ BAND VL BAND U (JOG 1) 128Hz T TLK T LSN T CLK
IC7501-59 STOP
5.0Vp-p (0.2μsec. div)
IC7501-58 STOP
1.4Vp-p (0.2μsec. div)
IC7501-62 STOP
2.5Vp-p (10μsec. div)
IC7501-19 STOP
5.0Vp-p (10msec. div)
IC7501-17 STOP
5.0Vp-p (10msec. div)
WHEN SERVICING THE SUPER CAPACITOR (C7517), DO NOT SHORT BOTH (+) AND (−) TERMINAL.
P7501
OSD ON Ⓗ 1
PAL CONV. Ⓗ 2
3
4
RESET Ⓛ 5
SIMUL Ⓗ 6
TEST SIG Ⓛ 7
MONO Ⓗ 8
SEL MUTE Ⓗ 9
INPUT SEL A 10
S. DATA 11
S. CLOCK 12
TIMER BUS TLK 13
IC CLOCK 14
OSD CS Ⓛ 15
GND 16
GND 17
AFC DEF. Ⓗ 18
SYNC (GND) 19
AFC S-CURVE 20
AUDIO DEF Ⓗ 21
3.58 CONV. Ⓗ 22
DAC 23
AI ON Ⓗ 24
UNREG 14V 25
BAND U 26
BAND VL 27
SYSTEM CTL 5V 28
29
UNREG −29V 30
HEATER (−) 31
HEATER (+) 32
TO SYSTEM CONTROL & SERVO SECTION P6001 (Page:4-14/C-19)
(NV-HD600EA ONLY)
(NV-HD600EA/BD ONLY)
(NV-HD600BD ONLY)
A B C D E F G
1 2 3 4 5 6 7 8 9 10 11

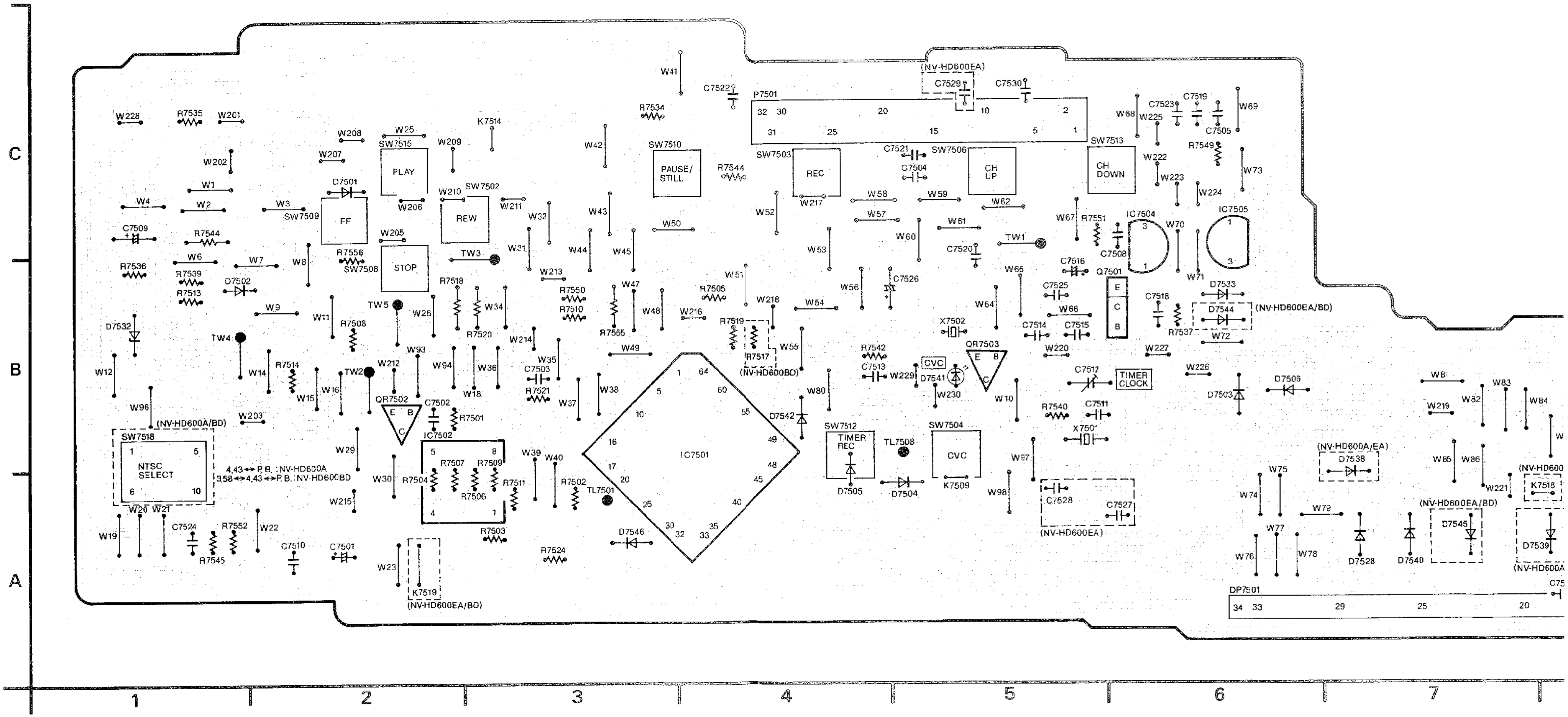
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE


SEGMENT CONTROL SIGNAL
GRID CONTROL SIGNAL
TUNE CONTROL SIGNAL
DP7501 VSL0325A
REC
OTR
REMAIN
SP
ELP
VTR
IC7501
M37507V4BU
IC7501-59 STOP
5.0Vp-p (0.2μsec. div)
IC7501-58 STOP
1.4Vp-p (0.2μsec. div)
IC7501-62 STOP
2.5Vp-p (10μsec. div)
IC7501-12 STOP
5.0Vp-p (10msec. div)
IC7501-17 STOP
5.0Vp-p (10msec. div)
IC7502
M6M80041P
IC7503
RPM675CBRX10
(IR RECEIVER)
QR7501
MUN2112
(TEST SIG ⓛ:ON)
QR7502
MUN2213
QR7503
MUN2211
(AI ON Ⓗ:ON)
SW7515 EVQ11409K
PLAY
SW7506 EVQ11409K
STOP
SW7502 EVQ11409K
REW
SW7509 EVQ11409K
FF
SW7503 EVQ11409K
REC
SW7510 EVQ11409K
PAUSE/STILL
SW7504 EVQ11409K
CVC
SW7512 EVQ11409K
TIMER REC
SW7506 EVQ11409K
CH UP
SW7513 EVQ11409K
CH DOWN
SW7514 EVQ11409K
POWER
SW7507 EVQ11409K
EJECT
(NV-HD600BD ONLY)
(NV-HD600A ONLY)
(NV-HD600EA/BD ONLY)
(NV-HD600A/EA ONLY)
(NV-HD600EA/ED ONLY)
(NV-HD600EA ONLY)
(NV-HD600BD ONLY)
SEG6
SEG5
SEG4
AI ON Ⓗ
OSD ON Ⓗ
MONO Ⓗ
VEE
VCC
X OUT
X IN
VSS
X CIN
X COUT
SIMUL Ⓗ
SEL MUTE Ⓗ
INSEL A
APC(S)
OSD CS Ⓛ/SAY Ⓛ
AFC DEF Ⓗ
SYNC Ⓛ
IC CLK
IR
MEMORY CS Ⓛ
DAC/FR CS Ⓛ
(JOG 2)
POW FAIL Ⓛ
RST Ⓛ
S CLK
S DATA IN
S DATA OUT
DIG 19
INSEL B
A DEF Ⓗ
P20
P21
P22
P23
P24
3.58/4.43 Ⓗ
BAND VL
BAND U
(JOG 1)
128Hz
T TLK
T LSN
T CLK
SEG7
SEG8
SEG9
SEG10
SEG11
SEG12
SEG13
DIG6
DIG7
DIG8
DIG9
DIG10
DIG11
DIG12
DIG13
DIG14
VDD
BUSY
RSTH
VSS
CS
CLK
DV
DO
OUT
GND
VCC
TL7509
TL7500
TL7501
TW1
TW2
TW3
TW4
TW5
X7501 VSX0602
X7502 VSX0094
C7510 0.01
C7509 50V10
D7532 MA4220
C7524 0.01
R7537 220
C7528 100P
C7527 100P
D7542 1SS254
D7544 1SS254
R7540 330
R7539 100
R7542 220K
R7549
C7530 0.01
C7520 0.01
C7521 0.01
R7556 220
R7521 220
C7503 220P
C7502 0.1
R7508 3300
R7507 3300
R7506 3300
R7517 3300
R7519 1K
R7505 2200
R7510 3300
R7550 3300
R7509 3300
R7534 1300
R7535 1300
C7508 100P
D7546 1SS254
R7562 10K
R7524 220
R7513 220
C7522 0.01
R7503 220
R7502 220
R7501 220
R7504 10K
C7501 5V47
R7511 3300
R7515 47
C7507 6V47
D7501 MA73
D7502 MA73
D7503 1SS254
D7504 1SS254
D7505 MA73
D7506 1SS254
D7507 1SS254
D7508 1SS254
D7512 1SS254
D7513 1SS254
D7514 1SS254
D7515 1SS254
D7539 1SS254
D7533 1SS254
D7545 1SS254
D7528 1SS254
D7540 1SS254
D7538 1SS254
D7516 1SS254
C7519 0.01
5
6
7
8
9
10
11
12
13
14

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-21 TIMER C.B.A. (VEP07772J: NV-HD600A) (VEP07772P: NV-HD600EA) (VEP07772Q: NV-HD600BD)


C
B
A
1
2
3
4
5
6
7
IC7501
IC7502
IC7504
IC7505
P7501
DP7501
SW7518
NTSC SELECT
(NV-HD600A/BD)
4.43↔P.B. : NV-HD600A
3.58↔4.43↔P.B. : NV-HD600BD
SW7515
PLAY
SW7509
FF
SW7508
STOP
SW7502
REW
SW7510
PAUSE/ STILL
SW7503
REC
SW7506
CH UP
SW7513
CH DOWN
SW7512
TIMER REC
SW7504
CVC
TIMER CLOCK
QR7502
QR7503
Q7501
X7502
X7501
TW1
TW2
TW3
TW4
TW5
TL7501
TL7508
K7509
K7514
K7518
K7519
(NV-HD600EA/BD)
(NV-HD600EA)
(NV-HD600BD)
(NV-HD600A/EA)
(NV-HD600A)
D7501
D7502
D7503
D7504
D7505
D7506
D7528
D7532
D7533
D7538
D7539
D7540
D7541
D7542
D7544
D7545
D7546
C7501
C7502
C7503
C7504
C7505
C7508
C7509
C7510
C7511
C7512
C7513
C7514
C7515
C7516
C7518
C7519
C7520
C7521
C7522
C7523
C7524
C7525
C7526
C7527
C7528
C7529
C7530
R7501
R7502
R7503
R7504
R7505
R7506
R7507
R7508
R7509
R7510
R7511
R7513
R7514
R7517
R7518
R7519
R7520
R7521
R7524
R7534
R7535
R7536
R7537
R7539
R7540
R7542
R7544
R7545
R7549
R7550
R7551
R7552
R7555
R7556
W1
W2
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W4
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W10
W11
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W14
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W16
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W201
W202
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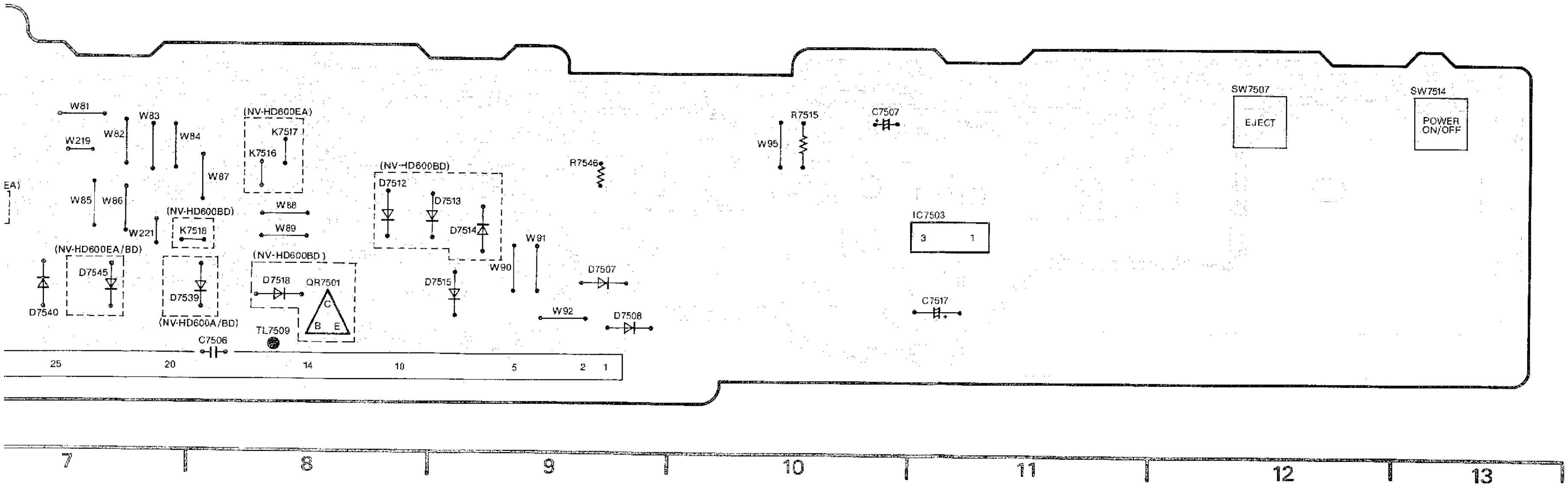
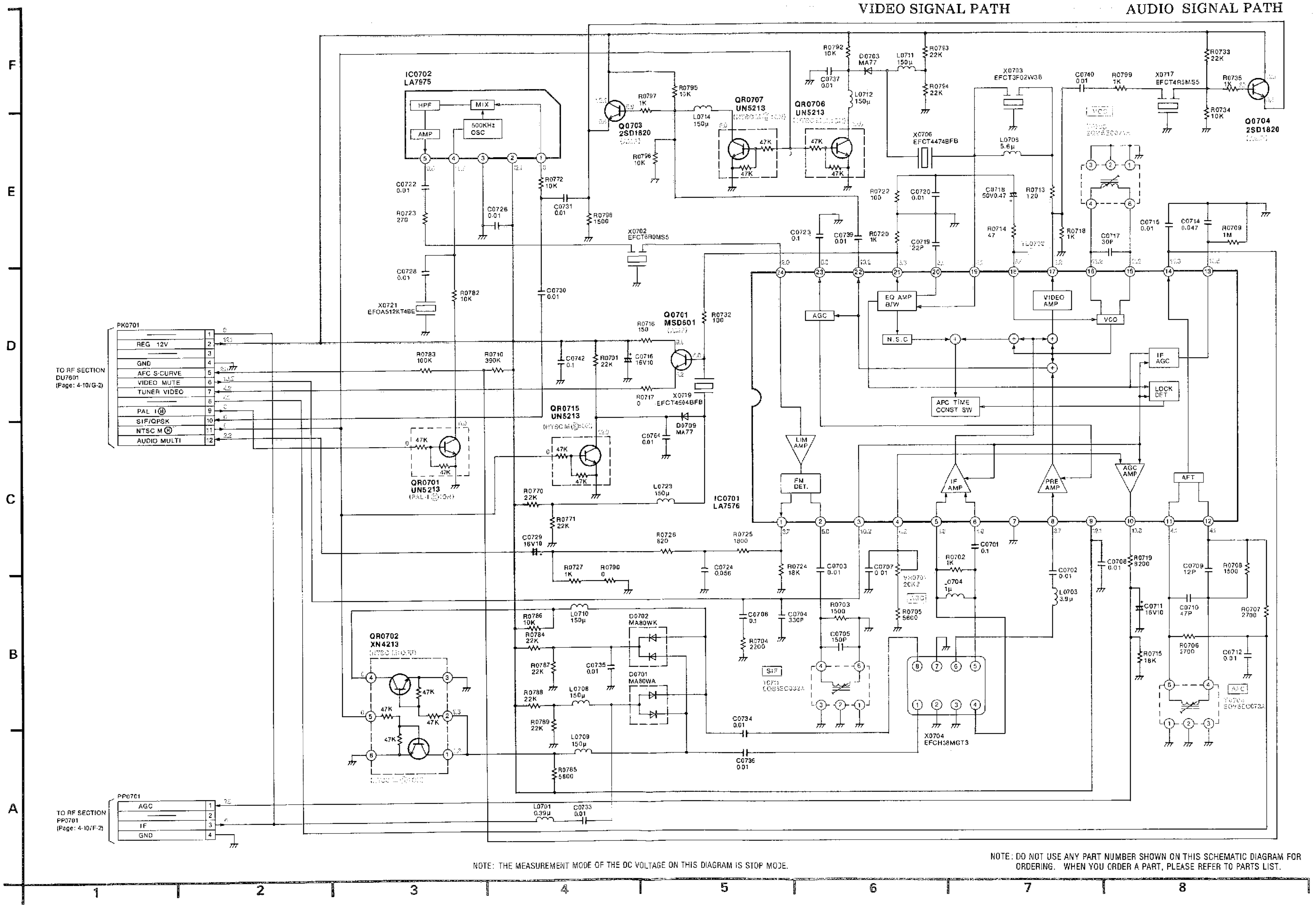
W208
W209
W210
W211
W212
W213
W214
W215
W216
W217
W218
W219
W220
W221
W222
W223
W224
W225
W226
W227
W228
W229
W230


W81
W83
W82
W84
W219
W87
W85
W86
W221
(NV-HD600EA)
K7517
K7516
(NV-HD600BD)
K7518
W88
W89
(NV-HD600EA/BD)
D7545
D7540
D7539
(NV-HD600A/BD)
(NV-HD600BD)
D7518
QR7501
C
B
E
TL7509
C7506
(NV-HD600BD)
D7512
D7513
D7514
D7515
W90
W91
D7507
W92
D7508
R7546
W95
R7515
C7507
IC7503
3
1
C7517
SW7507
EJECT
SW7514
POWER ON/OFF
25
20
14
10
5
2
1
EA)
7
8
9
10
11
12
13

TIMER C.B.A.	
Transistor	
Q7501	B-6
Transistor & Resistor	
QR7501	A-8
QR7502	B-2
QR7503	B-5
Integrated Circuit	
IC7501	B-4
IC7502	B-2
IC7503	A-11
IC7504	C-6
IC7505	C-6
Test Point	
TL7501	A-3
TL7508	B-5
TL7509	A-8
TW1	C-5
TW2	B-2
TW3	B-3
TW4	B-1
TW5	B-2
Adjustment	
C7512	B-5
Connector	
P7501	C-4

ADDRESS INFORMATION

4-22 TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-HD600BD)


VIDEO SIGNAL PATH
AUDIO SIGNAL PATH
F
E
D
C
B
A
1
2
3
4
5
6
7
8
TO RF SECTION DU7601 (Page: 4-10/G-2)
PK0701
REG 12V
GND
AFC S-CURVE
VIDEO MUTE
TUNER VIDEO
PAL I Ⓗ
SIF/QPSK
NTSC M Ⓗ
AUDIO MULTI
TO RF SECTION PP0701 (Page: 4-10/F-2)
PP0701
AGC
IF
GND
IC0702 LA7975
HPF
MIX
500KHz OSC
AMP
C0722 0.01
R0723 270
C0726 0.01
R0772 10K
C0731 0.01
R0798 1500
C0728 0.01
X0721 EFOA512KT4BE
R0782 10K
C0730 0.01
Q0703 2SD1820
R0797 1K
R0795 10K
L0714 150µ
R0796 10K
QR0707 UN5213
QR0706 UN5213
47K
X0702 EFCT6R0MS5
R0792 10K
C0737 0.01
D0703 MA77
L0711 150µ
L0712 150µ
R0793 22K
R0794 22K
X0706 EFCT4474BFB
X0703 EFCT3F02W38
L0706 5.6µ
C0740 0.01
R0799 1K
X0717 EFCT4R5MS5
R0733 22K
R0735 1K
R0734 10K
Q0704 2SD1820
R0722 100
C0720 0.01
C0718 50V0.47
R0713 120
R0714 47
R0718 1K
C0717 30P
C0715 0.01
C0714 0.047
R0709 1M
C0723 0.1
C0739 0.01
R0720 1K
C0719 22P
EQ AMP B/W
AGC
N.S.C
VIDEO AMP
VCO
IF AGC
LOCK DET
APC TIME CONST SW
LIM AMP
FM DET.
IF AMP
PRE AMP
AGC AMP
AFT
IC0701 LA7576
Q0701 MSD601
R0716 150
R0732 100
R0783 100K
R0710 390K
C0742 0.1
R0701 22K
C0716 16V10
R0717 0
X0719 EFCT4504BFB
D0709 MA77
C0764 0.01
QR0715 UN5213
QR0701 UN5213
(PAL-I Ⓗ ON)
L0723 150µ
R0770 22K
R0771 22K
C0729 16V10
R0726 820
R0725 1800
R0727 1K
R0790 0
C0724 0.056
R0724 18K
C0703 0.01
C0707 0.01
VR0701 20K
R0705 5600
C0701 0.1
R0702 1K
L0704 1µ
C0702 0.01
L0703 3.9µ
C0708 0.01
R0719 8200
C0711 16V10
R0715 18K
C0709 12P
R0708 1500
C0710 47P
R0707 2700
R0706 2700
C0712 0.01
AFC
QR0702 XN4213
R0786 10K
L0710 150µ
R0784 22K
D0702 MA80WK
R0787 22K
C0735 0.01
D0701 MA80WA
R0788 22K
L0708 150µ
R0789 22K
L0709 150µ
R0785 5600
C0706 0.1
C0704 330P
R0704 2200
R0703 1500
C0705 150P
SIF
C0734 0.01
C0736 0.01
X0704 EFCH38MGT3
L0701 0.39µ
C0733 0.01

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

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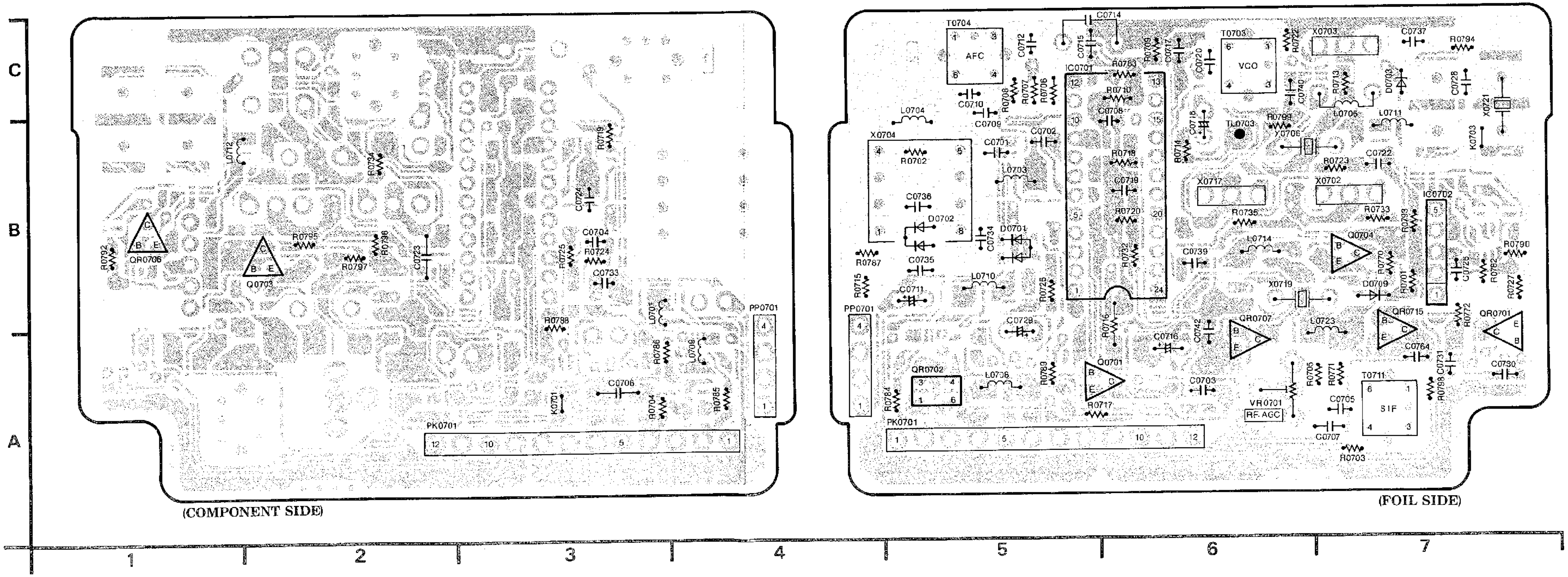
1820

IAGRAM FOR
S LIST.

4-23 TV DEMODULATOR PACK C B A (VEP07807A: NV-HD600BD)

TV DEMODULATOR PACK C.B.A.			
Transistor		**Test Point**	
Q0701	A-6	TL0703	B-6
Q0703	B-2	**Adjustment**	
Q0704	B-7	T0703	C-6
Transistor & Resistor		T0704	C-5
QR0701	A-7	T0711	A-7
QR0702	A-5	VR0701	A-6
QR0706	B-1	**Connector**	
QR0707	A-6	PK0701	A-3
QR0715	A-7	PK0701	A-5
Integrated Circuit		PP0701	A-4
IC0701	B-6	PP0701	A-4
IC0702	B-7		

ADDRESS INFORMATION

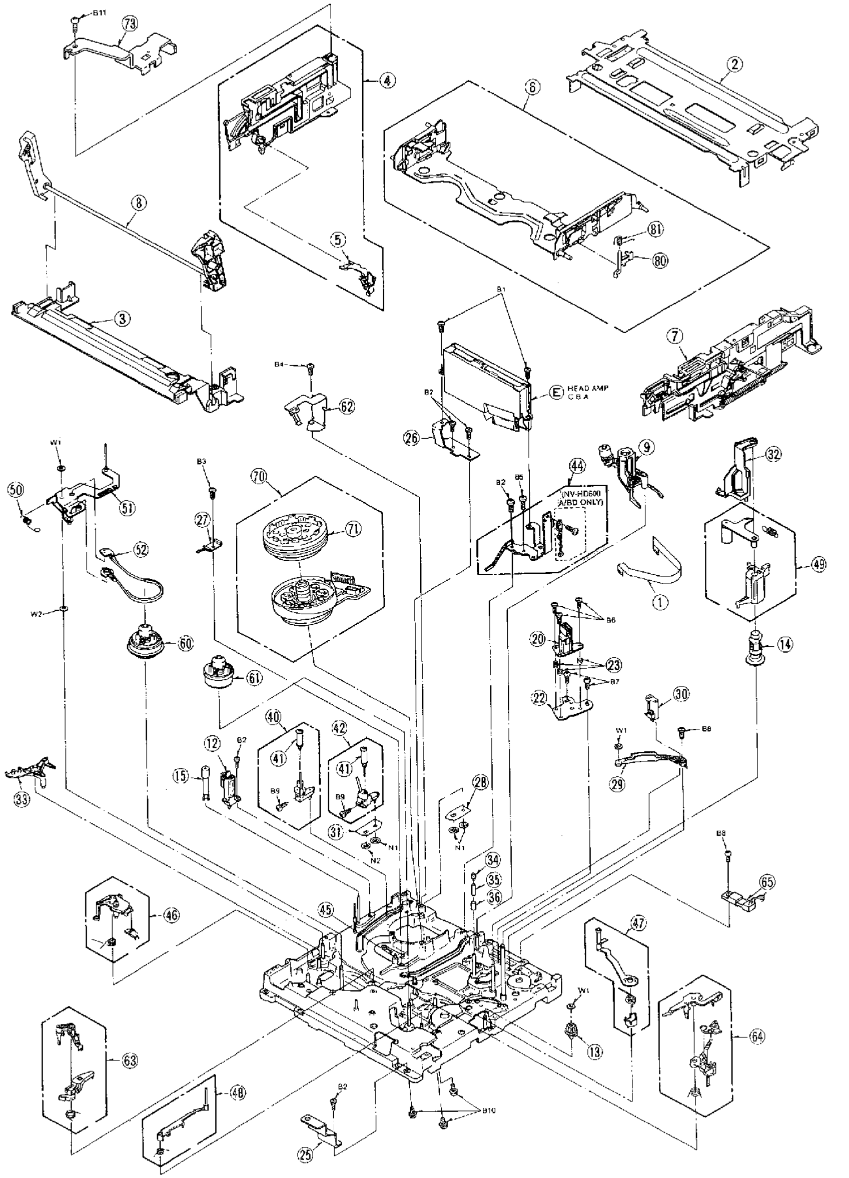


C
B
A
1
2
3
4
5
6
7
QR0706
R0792
Q0703
R0795
R0797
R0796
R0734
L0712
C0723
C0724
R0719
C0704
R0724
R0725
C0733
R0788
K0701
L0701
R0786
L0708
C0706
R0704
R0785
PK0701
PP0701
T0704
AFC
C0712
C0715
C0714
IC0701
R0783
R0710
C0708
R0718
C0719
R0720
R0732
R0709
C0720
T0703
VCO
R0722
X0703
C0737
R0794
L0704
X0704
R0702
C0736
D0702
C0735
R0787
R0715
C0711
C0710
C0709
R0708
R0707
R0706
C0701
C0702
L0703
C0734
D0701
L0710
R0728
C0729
QR0702
L0736
R0784
R0789
R0716
Q0701
R0717
C0716
C0742
C0703
R0714
C0718
TL0703
R0799
Y0706
X0717
R0735
C0739
L0714
X0719
QR0707
L0723
R0705
R0771
VR0701
RF AGC
C0705
C0707
R0703
T0711
SIF
C0740
R0713
L0705
D0703
L0711
C0728
X0721
K0703
R0723
C0722
X0702
R0733
IC0702
R0799
Q0704
R0770
D0709
R0701
QR0715
C0764
R0798
C0731
R0772
QR0701
C0726
R0782
R0790
R0727
C0730

(COMPONENT SIDE)

(FOIL SIDE)

SECTION 5
EXPLODED VIEWS & PARTS LIST
5-1. EXPLODED VIEW & MECHANICAL REPLACEMENT PARTS LIST
① CHASSIS PARTS SECTION (1)



5—1

Note:1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⟨!⟩ have the special characteristics for safety. When replacing any of these components,use only the same type.

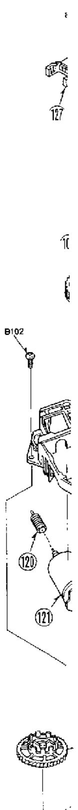
Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1(1)		VWJ0743	FLEXIBLE CABLE (6P)	1	P4002-P1501
2(1)		VMA8644	TOP PLATE	1	
3(1)		VMA8787	CASSETTE GUIDE	1	
4(1)		VXA4660	SIDE PLATE (L) UNIT	1	
5(1)		VML2902	OPENER LEVER	1	
6(1)		VXA4661	CASSETTE HOLDER PLATE UNIT	1	
7(1)		VXA4806	SIDE PLATE (R) UNIT	1	
8(1)		VXP1339	MAIN SHAFT UNIT	1	
9(1)		VXL2440	CLEANER ARM UNIT	1	
12(1)		VBS0052	FE HEAD	1	
13(1)		VDG0871	CARRIAGE CONNECTION GEAR	1	
14(1)		VDG0886	PINCH CAM GEAR	1	
15(1)		VXP1402	IMPEDANCE ROLLER UNIT	1	
20(1)		VED0217	A/C HEAD (1) UNIT	1	
22(1)		VMA8624	A/C HEAD BASE	1	
23(1)		VMB2515	A/C HEAD SPRING	3	
25(1)		VMA8761	MOUNT ANGLE	1	
26(1)		VMA9158	HEAD AMP MOUNT ANGLE (L)	1	
27(1)		VMC0917	EARTH SPRING	1	
28(1)		VMA8874	INCLIND BASE HOLDER (S)	1	
29(1)		VMD2078	P5 STOPPER BASE	1	
30(1)		VXA4927	P5 POST STOPPER	1	
31(1)		VMA8873	INCLIND BASE HOLDER (T)	1	
32(1)		VMD2101	OPENER PIECE	1	
33(1)		VML2776	TENSION SPRING ARM	1	
34(1)		VMX1544	P4 UPPER LIMITER	1	
35(1)		VMK2175	P4 SLEEVE	1	
36(1)		VMK2176	P4 LOWER LIMITER	1	
40(1)		VXA5245KIT	INCLINED BASE (S) UNIT	1	OR VXA4982KIT
41(1)		VXP1415	ROLLER POST	2	
42(1)		VXA5247KIT	INCLINED BASE (T) UNIT	1	OR VXA4984KIT
44(1)		VXA5170	HEAD AMP MOUNT ANGLE (R) U.	1	NV-HD600A/BD
44(1)		VXA4974	HEAD AMP MOUNT ANGLE (R) U.	1	NV-HD600EA
45(1)		VMS5383	CASSETTE POSITION FIXTURE	1	
46(1)		VXL2310	REVIEW ARM UNIT	1	
47(1)		VXL2306	P5 ARM UNIT	1	
48(1)		VXL2394	TAKE UP TENSION REGULATOR ARM UNIT	1	
49(1)		VXL2246	PINCH ARM UNIT	1	
50(1)		VMB2434	TENSION SPRING	1	
51(1)		VXL2309	TENSION ARM (1) UNIT	1	
52(1)		VXZ0310	TENSION BAND UNIT	1	
60(1)		VXR0236	SUPPLY REEL TABLE UNIT	1	
61(1)		VXR0237	TAKE UP REEL TABLE UNIT	1	
62(1)		VXS0131	EARTH PLATE	1	
63(1)		VXZ0312	SUPPLY BRAKE ARM UNIT	1	
64(1)		VXZ0313	TAKE UP BRAKE ARM UNIT	1	
65(1)		2SB1370YD01E	POWER TRANSISTOR	1	
70(1)		VEG1177	CYLINDER UNIT	1	
71(1)		VXP1515	UPPER CYLINDER UNIT	1	
73(1)		VMA9201	CYLINDER ANGLE	1	
80(1)		VML2680	RELEASE LEVER	1	
81(1)		VMB2013	RELEASE SPRING	1	
B1(1)		VHD0773	SCREW	2	
B2(1)		XTV26+6F	SCREW	5	
B3(1)		XTV26+4F	SCREW	1	
B4(1)		XTN3+6FFZ	SCREW	1	
B5(1)		XTV26+10F	SCREW	1	
B6(1)		VHD0762	SCREW	3	
B7(1)		XTV26+6FZ	SCREW	2	
B8(1)		XTV26+8F	SCREW	2	
B9(1)		XQN2+AJ4	SCREW	2	
B10(1)		VHD0342	SCREW	3	
B11(1)		XTS26+8G	SCREW	1	
N1(1)		VHN0192	NUT	3	
N2(1)		VHN0193	NUT	1	
W1(1)		VMX2208	WASHER	3	
W2(1)		XWGV26D5G	WASHER	1	

Note:1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⟨!⟩ have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
100(2)		VEX5927	CAPSTAN STATOR UNIT	1	
101(2)		VBK0061	FG HEAD	1	
103(2)		VMA8930	ROTOR STOPPER	1	
104(2)		VMX1927	OIL SEAL	2	
105(2)		VXD0140	HOUSING UNIT	1	
106(2)		VXP1519	CAPSTAN ROTOR UNIT	1	
107(2)		VXQ0297	THRUST SCREW UNIT	1	
108(2)		VDG0913	MAIN CAM GEAR	1	
109(2)		VDG0956	SUPPLY REEL GEAR	1	
110(2)		VDG0957	TAKE UP REEL GEAR	1	
111(2)		VDG0868	WORM WHEEL GEAR	1	
112(2)		VDG0885	SUB CAM GEAR	1	
113(2)		VDV0235	TIMING BELT	1	
120(2)		VDG0866	WORM GEAR	1	
121(2)		VEM0427	LOADING MOTOR (1) UNIT	1	
123(2)		VMD1942	MOTOR BRACKET	1	
125(2)		VML2725	IDLER CONTROL LEVER	1	
127(2)		VSS0365	MODE SW	1	
128(2)		VXA5138	SS BRAKE BASE UNIT	1	
129(2)		VXA4799	TENSION ROLLER UNIT	1	
140(2)		VXL2378	IDLER ARM UNIT	1	
141(2)		VXL2372	DIRECT LEVER UNIT	1	
142(2)		VXL2299	SUPPLY LOADING ARM UNIT	1	
143(2)		VXL2300	TAKE UP LOADING ARM UNIT	1	
144(2)		VXL2307	MAIN LEVER UNIT	1	
145(2)		VXP1409	CENTRE CLUTCH	1	
B102(2)		XTV26+8F	SCREW	1	
B103(2)		XTV26+6F	SCREW	3	
B104(2)		VHD0753	SCREW	4	
B105(2)		VHD0754	SCREW	1	
B106(2)		XSB26+4FZ	SCREW	1	
W101(2)		VMX2208	WASHER	4	

5—2

② CH



LIST

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1(1)		VWJ0743	FLEXIBLE CABLE (6P)	1	P4002-P1501
2(1)		VMA8644	TOP PLATE	1	
3(1)		VMA6787	CASSETTE GUIDE	1	
4(1)		VXA4660	SIDE PLATE (L) UNIT	1	
5(1)		VML2902	OPENER LEVER	1	
6(1)		VXA4661	CASSETTE HOLDER PLATE UNIT	1	
7(1)		VXA4806	SIDE PLATE (R) UNIT	1	
8(1)		VXP1339	MAIN SHAFT UNIT	1	
9(1)		VXL2440	CLEANER ARM UNIT	1	
12(1)		VBS0052	FE HEAD	1	
13(1)		VDG0871	CARRIAGE CONNECTION GEAR	1	
14(1)		VDG0806	PINCH CAM GEAR	1	
15(1)		VXP1402	IMPEDANCE ROLLER UNIT	1	
20(1)		VED0217	A/C HEAD (1) UNIT	1	
22(1)		VMA8624	A/C HEAD BASE	1	
23(1)		VMB2515	A/C HEAD SPRING	3	
25(1)		VMA8761	MOUNT ANGLE	1	
26(1)		VMA9158	HEAD AMP MOUNT ANGLE (L)	1	
27(1)		VMC0917	EARTH SPRING	1	
28(1)		VMA8874	INCLIND BASE HOLDER (S)	1	
29(1)		VMD2078	P5 STOPPER BASE	1	
30(1)		VXA4927	P5 POST STOPPER	1	
31(1)		VMA8873	INCLIND BASE HOLDER (T)	1	
32(1)		VMD2101	OPENER PIECE	1	
33(1)		VML2776	TENSION SPRING ARM	1	
34(1)		VMX1544	P4 UPPER LIMITER	1	
35(1)		VMX2175	P4 SLEEVE	1	
36(1)		VMX2176	P4 LOWER LIMITER	1	
40(1)		VXA5245KIT	INCLINED BASE (S) UNIT	1	OR VXA4982KIT
41(1)		VXP1415	ROLLER POST	2	
42(1)		VXA5247KIT	INCLINED BASE (T) UNIT	1	OR VXA4984KIT
44(1)		VXA5170	HEAD AMP MOUNT ANGLE (R) U.	1	NV-HD600A/BD
44(1)		VXA4974	HEAD AMP MOUNT ANGLE (R) U.	1	NV-HD600EA
45(1)		VMS5383	CASSETTE POSITION FIXTURE	1	
46(1)		VXL2310	REVIEW ARM UNIT	1	
47(1)		VXL2306	P5 ARM UNIT	1	
48(1)		VXL2394	TAKE UP TENSION REGULATOR	1	
			ARM UNIT		
49(1)		VXL2246	PINCH ARM UNIT	1	
50(1)		VMB2434	TENSION SPRING	1	
51(1)		VXL2309	TENSION ARM (1) UNIT	1	
52(1)		VXZ0310	TENSION BAND UNIT	1	
60(1)		VXR0236	SUPPLY REEL TABLE UNIT	1	
61(1)		VXR0237	TAKE UP REEL TABLE UNIT	1	
62(1)		VXS0131	EARTH PLATE	1	
63(1)		VXZ0312	SUPPLY BRAKE ARM UNIT	1	
64(1)		VXZ0313	TAKE UP BRAKE ARM UNIT	1	
65(1)		2SB1370YD01E	POWER TRANSISTOR	1	
70(1)		VEG1177	CYLINDER UNIT	1	
71(1)		VXP1515	UPPER CYLINDER UNIT	1	
73(1)		VMA9201	CYLINDER ANGLE	1	
80(1)		VML2680	RELEASE LEVER	1	
81(1)		VMB2013	RELEASE SPRING	1	
B1(1)		VHD0773	SCREW	2	
B2(1)		XTV26+6F	SCREW	5	
B3(1)		XTV26+4F	SCREW	1	
B4(1)		XTN3+6FFZ	SCREW	1	
B5(1)		XTV26+10F	SCREW	1	
B6(1)		VHD0762	SCREW	3	
B7(1)		XTV26+6FZ	SCREW	2	
B8(1)		XTV26+8F	SCREW	2	
B9(1)		XQN2+AJ4	SCREW	2	
B10(1)		VHD0342	SCREW	3	
B11(1)		XTS26+8G	SCREW	1	
N1(1)		VHN0192	NUT	3	
N2(1)		VHN0193	NUT	1	
W1(1)		VMX2208	WASHER	3	
W2(1)		XWGV26D5G	WASHER	1	

Note:1.* Be sure to make your orders of replacement parts according to this list.
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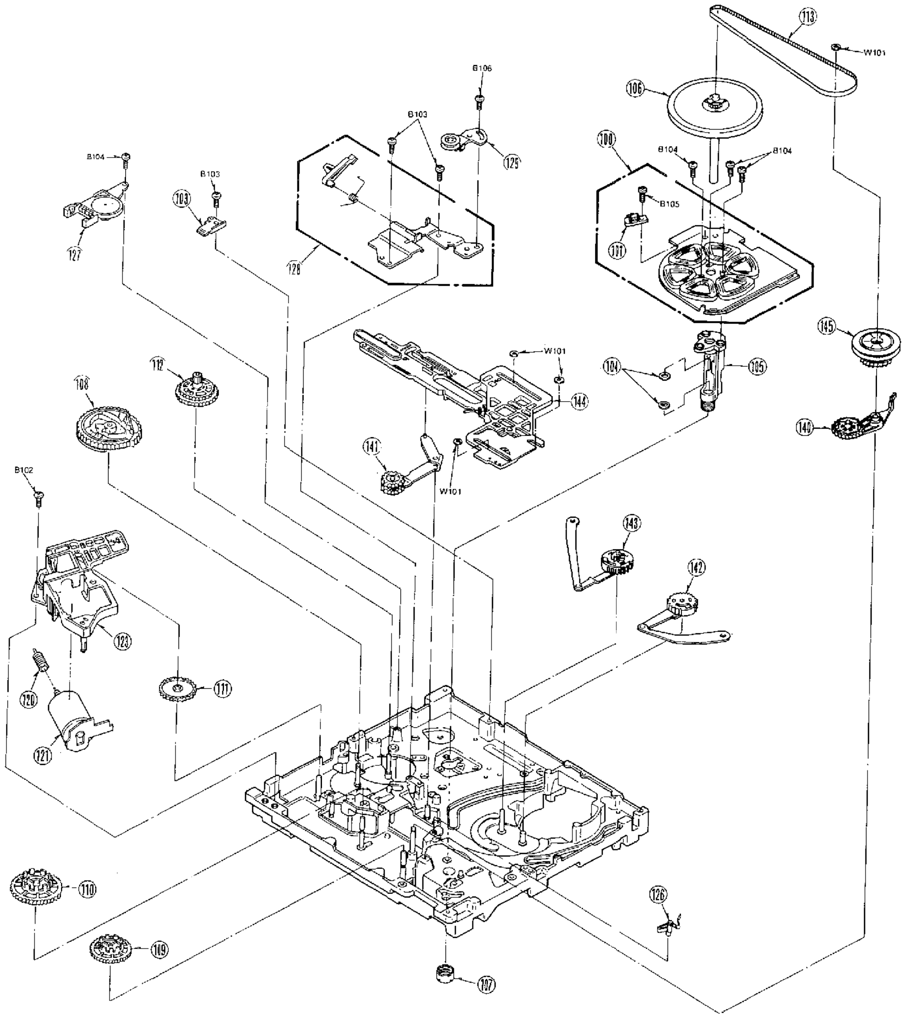
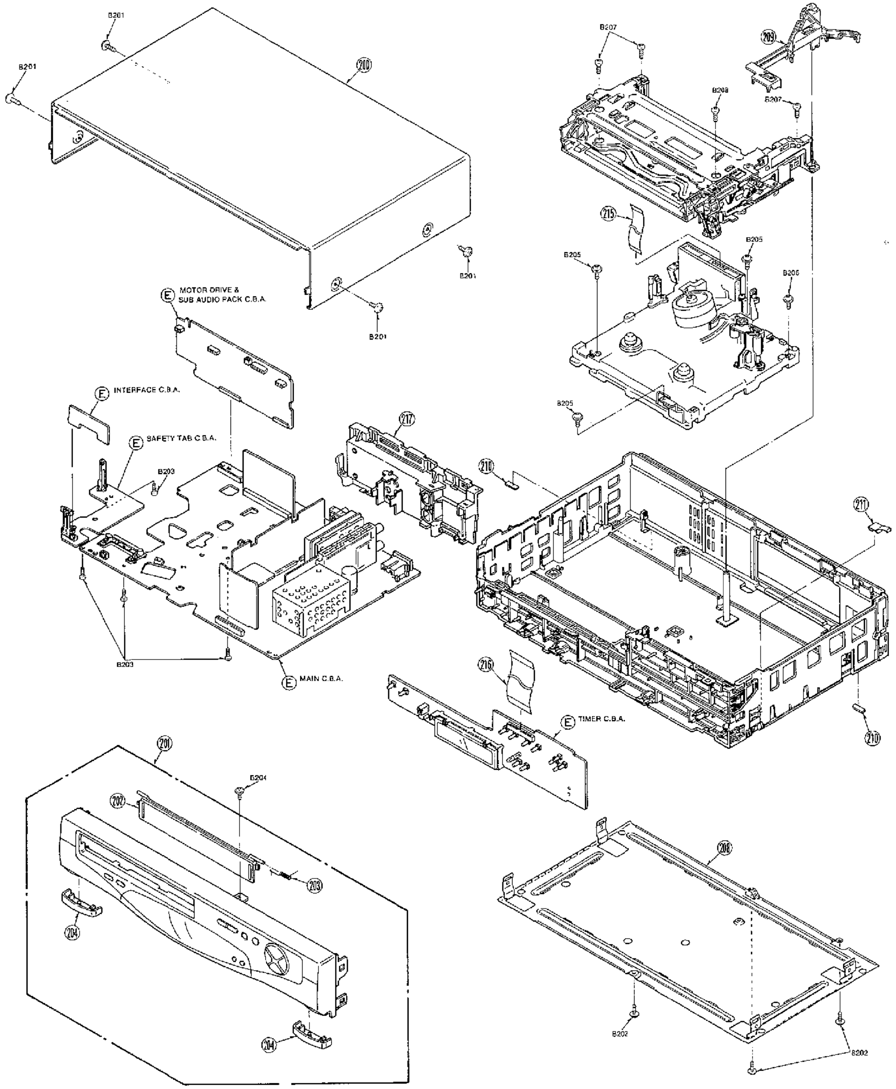
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
100(2)		VEK5927	CAPSTAN STATOR UNIT	1	
101(2)		VBK0061	FG HEAD	1	
103(2)		VMA8930	ROTOR STOPPER	1	
104(2)		VMX1927	OIL SEAL	2	
105(2)		VXD0140	HOUSING UNIT	1	
106(2)		VXP1519	CAPSTAN ROTOR UNIT	1	
107(2)		VXQ0297	THRUST SCREW UNIT	1	
108(2)		VDG0913	MAIN CAM GEAR	1	
109(2)		VDG0956	SUPPLY REEL GEAR	1	
110(2)		VDG0957	TAKE UP REEL GEAR	1	
111(2)		VDG0868	WORM WHEEL GEAR	1	
112(2)		VDG0885	SUB CAM GEAR	1	
113(2)		VDV0235	TIMING BELT	1	
120(2)		VDG0866	WORM GEAR	1	
121(2)		VEM0427	LOADING MOTOR (1) UNIT	1	
123(2)		VMD1942	MOTOR BRACKET	1	
126(2)		VML2725	IDLER CONTROL LEVER	1	
127(2)		VSS0365	MODE SW	1	
128(2)		VXA5138	SS BRAKE BASE UNIT	1	
129(2)		VXA4799	TENSION ROLLER UNIT	1	
140(2)		VXL2378	IDLER ARM UNIT	1	
141(2)		VXL2372	DIRECT LEVER UNIT	1	
142(2)		VXL2299	SUPPLY LOADING ARM UNIT	1	
143(2)		VXL2300	TAKE UP LOADING ARM UNIT	1	
144(2)		VXL2307	MAIN LEVER UNIT	1	
145(2)		VXP1409	CENTRE CLUTCH	1	
B102(2)		XTV26+8F	SCREW	1	
B103(2)		XTV26+6F	SCREW	3	
B104(2)		VHD0753	SCREW	4	
B105(2)		VHD0754	SCREW	1	
B106(2)		XSB26+4FZ	SCREW	1	
W101(2)		VMX2208	WASHER	4	

CHASSIS PARTS SECTION (2)



❸ CASING PARTS SECTION



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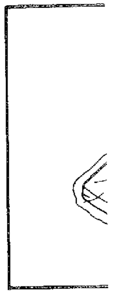
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
200(3)		VGM1105	TOP PANEL	1	
201(3)		VYP5748	FRONT PANEL UNIT	1	NV-HD600A
201(3)		VYP5788	FRONT PANEL UNIT	1	NV-HD600EA
201(3)		VYP5789	FRONT PANEL UNIT	1	NV-HD600BD
202(3)		VKF2260	BLINDER PANEL	1	
203(3)		VMB2521	BLINDER SPRING	1	
204(3)		VKA0176	LEG	2	
208(3)		VKU0404	BOTTOM PLATE	1	
209(3)		VJF1134	PACK HOLDER	1	
210(3)		VKA0122	FOOT	2	
211(3)		VMC1065	EARTH SPRING	1	
215(3)		VWJ0875	FLAT CARD CABLE	1	P501-P3002
216(3)		VWJ32C9160BB	FLAT CARD CABLE	1	P6001-P7501
217(3)		VJH0786	I/O JACK PLATE	1	NV-HD600A/EA
217(3)		VJH0787	I/O JACK PLATE	1	NV-HD600BD
B201(3)		XTW3+10TFZ	SCREW	4	
B202(3)		VHD0059	SCREW	3	
B203(3)		VHD0772	SCREW	4	
B204(3)		VHD0773	SCREW	1	
B205(3)		VHD0168	SCREW	3	
B206(3)		VHD0874	SCREW	1	
B207(3)		XTV26+8FR	SCREW	3	
B208(3)		XTV26+10F	SCREW	1	

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
300(4)		VQT5898	OPERATING INSTRUCTIONS	1	<!>NV-HD600A/EA
			(ENGLISH)		
300(4)		VQT5875	OPERATING INSTRUCTIONS	1	<!>NV-HD600BD
			(ENGLISH/CHINESE)		
301(4)		VEQ1638	REMOTE CONTROLLER	1	
304(4)		VJA0376	DIN RF CABLE	1	
305(4)		VJA0754	AC CORD	1	<!>NV-HD600A/EA
305(4)		VJA0733	AC CORD	1	<!>NV-HD600BD
306(4)		VJA0788	AV CABLE	1	NV-HD600BD
310(4)		VPK0825	ACCESSORIES PACKING	1	
311(4)		VPN4034	CUSHION (R)	1	
312(4)		VPN4035	CUSHION (L)	1	
315(4)		VPG7802	PACKING	1	NV-HD600A
315(4)		VPG7872	PACKING	1	NV-HD600EA
315(4)		VPG7873	PACKING	1	NV-HD600BD
			SERVICE FIXTURES & TOOLS		
		VFJ8125H3F	VHS ALIGNMENT TAPE(PAL)	1	
		VFK0335	RETAINING RING REMOVER	1	
			(3mm/4mm)		
		VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
		VFK0326	HEX WRENCH SET	1	
		VFK0132	BACK TENSION METER	1	
		VFK27	HEAD CLEANING STICK	1	
		MOR265	MORLYTONE GREASE	1	
		VFK0341	UPPER CYLINDER REMOVER	1	
		VFK0680	WHITE GREASE	1	
		VFK0851	CENTRE FIXING TOOL	1	
		VFK0330	FINE ADJUSTMENT GEAR DRIVER	1	
		VFK0917	11P EXTENSION CABLE	1	
		VFK0678	18P EXTENSION CABLE	1	NV-HD600A/BD
		VFK0918	17P EXTENSION CABLE	1	NV-HD600EA

❹ PACK



211
210
B202

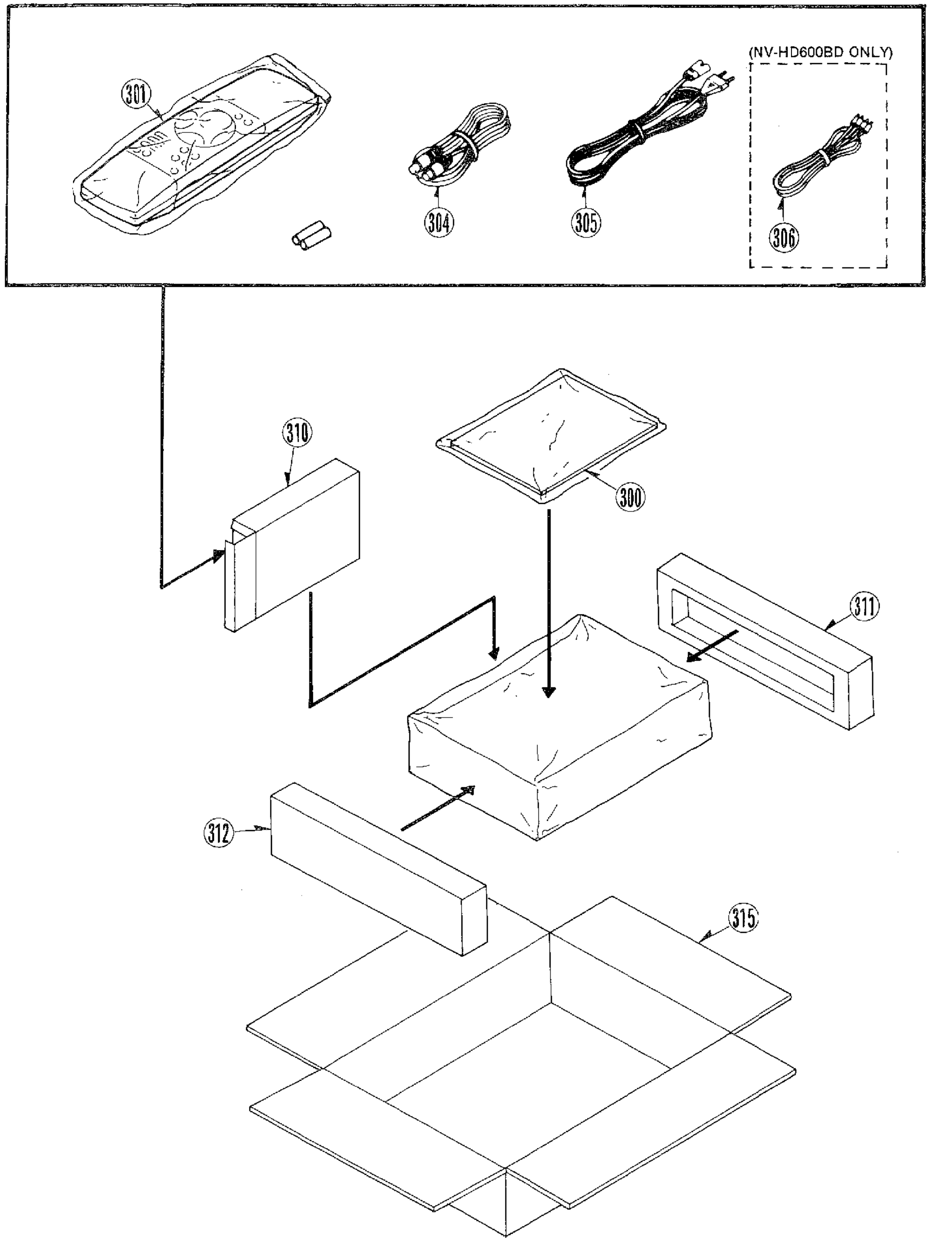
Note:1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components.use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
200(3)		VGM1105	TOP PANEL	1	
201(3)		VYP5748	FRONT PANEL UNIT	1	NV-HD600A
201(3)		VYP5788	FRONT PANEL UNIT	1	NV-HD600EA
201(3)		VYP5789	FRONT PANEL UNIT	1	NV-HD600BD
202(3)		VKF2260	BLINDER PANEL	1	
203(3)		VMB2521	BLINDER SPRING	1	
204(3)		VKA0176	LEG	2	
208(3)		VKU0404	BOTTOM PLATE	1	
209(3)		VJF1134	PACK HOLDER	1	
210(3)		VKA0122	FOOT	2	
211(3)		VMC1065	EARTH SPRING	1	
215(3)		VWJ0875	FLAT CARD CABLE	1	P501-P3002
216(3)		VWJ32C9160BB	FLAT CARD CABLE	1	P6001-P7501
217(3)		VJH0786	I/O JACK PLATE	1	NV-HD600A/EA
217(3)		VJH0787	I/O JACK PLATE	1	NV-HD600BD
B201(3)		XTW3+10TF2	SCREW	4	
B202(3)		VHD0059	SCREW	3	
B203(3)		VHD0772	SCREW	4	
B204(3)		VHD0773	SCREW	1	
B205(3)		VHD0168	SCREW	3	
B206(3)		VHD0874	SCREW	1	
B207(3)		XTV26+8FR	SCREW	3	
B208(3)		XTV26+10F	SCREW	1	

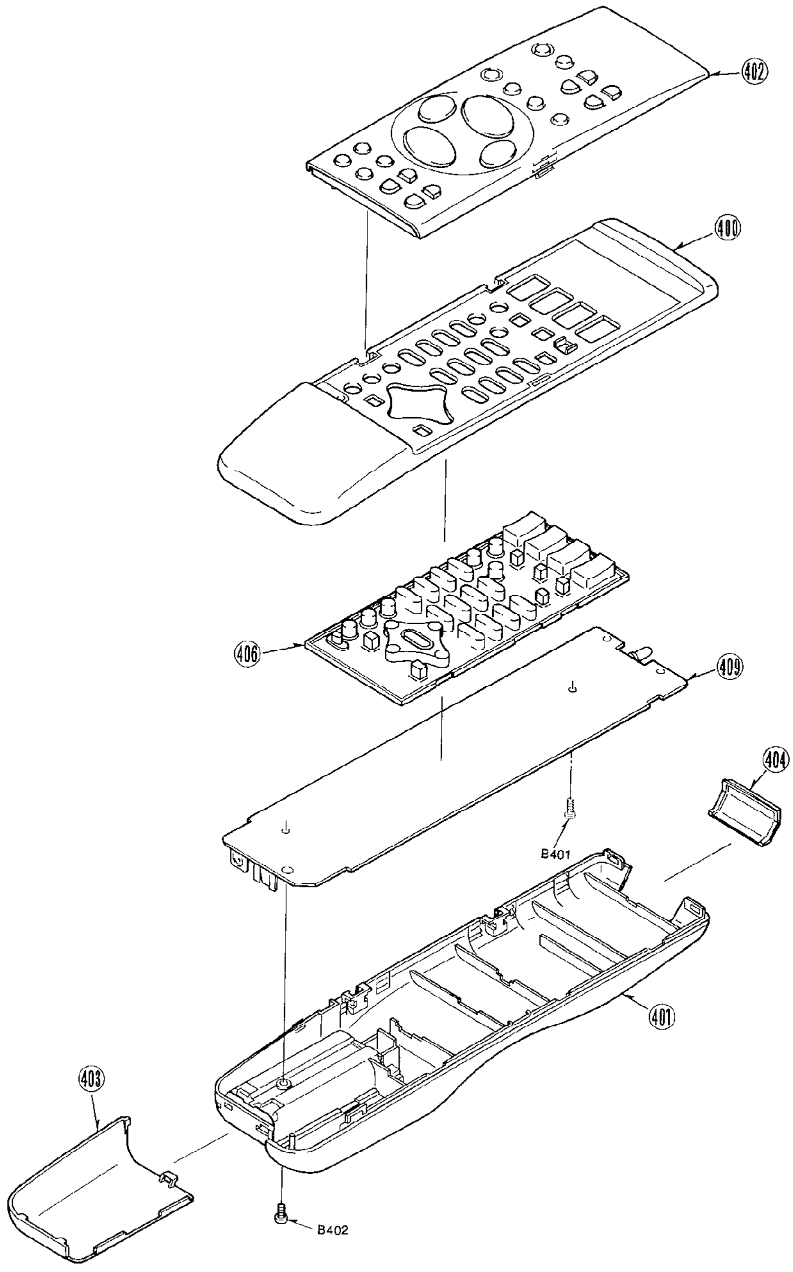
Note:1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
300(4)		VQT5898	OPERATING INSTRUCTIONS	1	<!>NV-HD600A/EA
			(ENGLISH)		
300(4)		VQT5875	OPERATING INSTRUCTIONS	1	<!>NV-HD600BD
			(ENGLISH/CHINESE)		
301(4)		VEQ1638	REMOTE CONTROLLER	1	
304(4)		VJA0376	DIN RF CABLE	1	
305(4)		VJA0754	AC CORD	1	<!>NV-HD600A/EA
305(4)		VJA0733	AC CORD	1	<!>NV-HD600BD
306(4)		VJA0788	AV CABLE	1	NV-HD600BD
310(4)		VPK0825	ACCESSORIES PACKING	1	
311(4)		VPN4034	CUSHION (R)	1	
312(4)		VPN4035	CUSHION (L)	1	
315(4)		VPG7802	PACKING	1	NV-HD600A
315(4)		VPG7872	PACKING	1	NV-HD600EA
315(4)		VPG7873	PACKING	1	NV-HD500BD
			SERVICE FIXTURES & TOOLS		
		VFJ8125H3F	VHS ALIGNMENT TAPE(PAL)	1	
		VFK0335	RETAINING RING REMOVER	1	
			(3mm/4mm)		
		VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
		VFK0326	HEX WRENCH SET	1	
		VFK0132	BACK TENSION METER	1	
		VFK27	HEAD CLEANING STICK	1	
		MOR265	MORLYTONE GREASE	1	
		VFK0341	UPPER CYLINDER REMOVER	1	
		VFK0680	WHITE GREASE	1	
		VFK0851	CENTRE FIXING TOOL	1	
		VFK0330	FINE ADJUSTMENT GEAR DRIVER	1	
		VFK0917	11P EXTENSION CABLE	1	
		VFK0678	18P EXTENSION CABLE	1	NV-HD600A/BD
		VFK0918	17P EXTENSION CABLE	1	NV-HD600EA

❹ PACKING PARTS SECTION



❺ REMOTE CONTROLLER UNIT



Note: 1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
400(5)		VYK6261	TOP COVER UNIT	1	
401(5)		VYK5446	BOTTOM COVER UNIT	1	
402(5)		VYK6388	DOOR PANEL UNIT	1	
403(5)		VKF2115	BATTERY COVER	1	
404(5)		VKW1802	IR WINDOW	1	
406(5)		VSP0849	RUBBER CONTACT	1	
409(5)		----------	REMOTE CONTROLLER C.B.A.	1	THE C.B.A. IS NOT
					SUPPLIED AS SPARE
					PART.
B401(5)		XTB2+6G	SCREW	1	
B402(5)		XTB2+8GF2	SCREW	1	

5-2. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE : Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS , K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.
4. The P.C.Board units marked width'▌'show below the main assembled parts.
5. The marking(RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP06977F	MAIN C.B.A.	1	(RTL)<!>NV-HD600A
			(Page:5-9)		INCLUDING THE
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03B22C),
					Hi-Fi AUDIO PACK
					C.B.A.(VEP04447PM),
					OSD PACK C.B.A.
					(VEP06979B),
					DECORDER PACK C.B.A.
					(VEP07784A),
					TV DEMODULATOR PACK
					C.B.A.(VEP07801C).
		VEP03B22C	LUMINANCE & CHROMINANCE	1	(RTL)NV-HD600A
			PACK C.B.A.		INCLUDED IN MAIN
					C.B.A.(VEP06977F).
		VEP04447PM	Hi-Fi AUDIO PACK C.B.A.	1	(RTL)NV-HD600A
					INCLUDED IN MAIN
					C.B.A.(VEP06977F).
		VEP06979B	OSD PACK C.B.A.	1	(RTL)NV-HD600A
					INCLUDED IN MAIN
					C.B.A.(VEP06977F).
		VEP07784A	DECORDER PACK C.B.A.	1	(RTL)NV-HD600A
					INCLUDED IN MAIN
					C.B.A.(VEP06977F).
		VEP07801C	TV DEMODULATOR PACK C.B.A.	1	(RTL)NV-HD600A
					INCLUDED IN MAIN
					C.B.A.(VEP06977F).
		VEP06977G	MAIN C.B.A.	1	(RTL)<!>NV-HD600EA
			(Page:5-15)		INCLUDING THE
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03B22D),
					Hi-Fi AUDIO PACK
					C.B.A.(VEP04447PL),
					OSD PACK C.B.A.
					(VEP06979B),
					NICAM DECORDER PACK
					C.B.A.(VEP07787E),
					TV DEMODULATOR PACK
					C.B.A.(VEP07801J).
		VEP03B22D	LUMINANCE & CHROMINANCE	1	(RTL)NV-HD600EA
			PACK C.B.A.		INCLUDED IN MAIN
					C.B.A.(VEP06977G).
		VEP04447PL	Hi-Fi AUDIO PACK C.B.A.	1	(RTL)NV-HD600EA
					INCLUDED IN MAIN
					C.B.A.(VEP06977G).
		VEP06979B	OSD PACK C.B.A.	1	(RTL)NV-HD600EA
					INCLUDED IN MAIN
					C.B.A.(VEP06977G).
		VEP07787E	NICAM DECORDER PACK C.B.A.	1	(RTL)NV-HD600EA
					INCLUDED IN MAIN
					C.B.A.(VEP06977G).

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP07801J	TV DEMODULATOR PACK C.B.A.	1	(RTL)NV-HD600EA
					INCLUDED IN MAIN
					C.B.A.(VEP06977G).
		VEP06977H	MAIN C.B.A.	1	(RTL)<!>NV-HD600BD
			(Page:5-21)		INCLUDING THE
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03B22F),
					SECAM PACK C.B.A.
					(VEP03A02A),
					Hi-Fi AUDIO PACK
					C.B.A.(VEP04447PM),
					OSD PACK C.B.A.
					(VEP06979A),
					NICAM DECORDER PACK
					C.B.A.(VEP07787C),
					TV DEMODULATOR PACK
					C.B.A.(VEP07807A).
		VEP03B22F	LUMINANCE & CHROMINANCE	1	(RTL)NV-HD600BD
			PACK C.B.A.		INCLUDED IN MAIN
					C.B.A.(VEP06977H).
					INCLUDING THE
					SECAM PACK C.B.A.
					(VEP03A02A).
		VEP03A02A	SECAM PACK C.B.A.	1	(RTL)NV-HD600BD
					INCLUDED IN LUMINANCE
					& CHROMINANCE PACK
					C.B.A.(VEP03B22F).
		VEP04447PM	Hi-Fi AUDIO PACK C.B.A.	1	(RTL)NV-HD600BD
					INCLUDED IN MAIN
					C.B.A.(VEP06977H).
		VEP06979A	OSD PACK C.B.A.	1	(RTL)NV-HD600BD
					INCLUDED IN MAIN
					C.B.A.(VEP06977H).
		VEP07787C	NICAM DECORDER PACK C.B.A.	1	(RTL)NV-HD600BD
					INCLUDED IN MAIN
					C.B.A.(VEP06977H).
		VEP07807A	TV DEMODULATOR PACK C.B.A.	1	(RTL)NV-HD600BD
					INCLUDED IN MAIN
					C.B.A.(VEP06977H).
		VEP04469G	MOTOR DRIVE C.B.A.	1	(RTL)NV-HD600A/BD
			(Page:5-28)		
		VEP04469H	MOTOR DRIVE C.B.A.	1	(RTL)NV-HD600EA
			(Page:5-29)		
		VEP05330A	HEAD AMP C.B.A.	1	(RTL)
			(Page:5-30)		
		VEP07772J	TIMER C.B.A.	1	(RTL)NV-HD600A
			(Page:5-30)		
		VEP07772P	TIMER C.B.A.	1	(RTL)NV-HD600EA
			(Page:5-31)		
		VEP07772Q	TIMER C.B.A.	1	(RTL)NV-HD600BD
			(Page:5-32)		
		VEP00U88A	MAIN INTERFACE C.B.A.	1	(RTL)
			(Page:5-33)		
		VEP00U71A	S-TAB C.B.A.	1	(RTL)
			(Page:5-33)		
		----------	MOTOR C.B.A.	1	C.B.A. IS INCLUDED
			(Page:5-33)		IN LOADING MOTOR (1
					UNIT(VEM0427).

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEX0129	CYLINDER DRIVE C.B.A.	1	(RTL)
			(Page:5-33)		
		ENG47208N	TUNER	1	<!>NV-HD600A
		ENG47209N	TUNER	1	<!>NV-HD600EA
		ENG47212N	TUNER	1	<!>NV-HD600BD
F1101		XBA2C16TB0	FUSE	1	<!>
	■	VEP06977F	MAIN C.B.A.		(RTL)NV-HD600A
C301		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C302		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C303		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C304		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C305		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C306		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C307		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C308		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C309		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C310-12		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C313		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C314		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C315		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C316		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C317		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C318,19		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C321		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C322		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C323		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C324		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C325		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C326		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C327		ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	1	
C328		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C329		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C330		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C331,32		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C333		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C334		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C335		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C336		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C340		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C341		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C342		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C343		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C344		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C345		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C347		ECUM1E154KBM	C.CAPACITOR CH 25V 0.15U	1	
C348		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C349		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C350		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C351		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C352		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C353		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C354		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C355		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C356		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C357		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C358,59		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C360		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C361		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C362		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C363		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C364		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C365		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C366		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C367-72		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C373		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C374		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C375		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C376		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C378		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C379		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C380		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C381		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C383		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C386		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C387		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C391		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C392		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C394		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C0701,02		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0704		ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C0706		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C0707,08		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0709		ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C0710		ECUX1H470JPV	C.CAPACITOR CH 50V 47P	1	
C0711		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0712		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0714		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C0715		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C0716		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0717		ECUX1H300JPV	C.CAPACITOR CH 50V 30P	1	
C0718		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C0719		ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C0720		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0723		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C0726		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0730		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C1001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1002		ECA1CM470	E.CAPACITOR 16V 47U	1	
C1003		ECA1CM101	E.CAPACITOR 16V 10U	1	
C1004		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1005		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C1006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1007		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C1008		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1009,10		ECEA0JKA101	E.CAPACITOR 6.3V 100U	2	
C1101,02		ECKMWS331MBH	C.CAPACITOR	2	<!>
C1103		ECKMWS102MEH	C.CAPACITOR	1	<!>
C1104		ECQU2A333MNB	P.CAPACITOR 250V 0.033U	1	<!>
C1105		ECQU2A154MNB	P.CAPACITOR 250V 0.15U	1	<!>
C1106		ECEC2GG680	E.CAPACITOR 400V 68U	1	
C1107		ECKD2H103PU	C.CAPACITOR 500V 0.01U	1	
C1108		ECCD3A121KGE	C.CAPACITOR 1KV 120P	1	
C1109		ECEA1VGE470	E.CAPACITOR 35V 47U	1	
C1110		ECEA0JGE331	E.CAPACITOR 6.3V 330U	1	
C1111		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1113		ECUM1H822KBN	C.CAPACITOR CH 50V 8200P	1	
C1131		EEUFA1E681	E.CAPACITOR 25V 680P	1	
C1132		ECEA1EU221	E.CAPACITOR 25V 220U	1	
C1133		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1134		EEUFA1A391B	E.CAPACITOR 10V 390P	1	
C1135		ECEA1AU331	E.CAPACITOR 10V 330U	1	
C1136		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1137		ECEA1JFE470	E.CAPACITOR 63V 47U	1	
C1138		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1139		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1140		ECA1VFQ560	E.CAPACITOR 35V 56U	1	
C1141		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1143		ECA0JFQ221	E.CAPACITOR 6.3V 220U	1	
C1144,45		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2013		ECQV1H334JM	P.CAPACITOR 50V 0.33U	1	
C2022		ECEA1EKS330	E.CAPACITOR 25V 33U	1	
C2023		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2024		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2025,26		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C2029,30		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C2031		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C2032		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2033		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2034		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2035		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C2037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2038		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2039		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C2040		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2047		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2049-51		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	3	
C2052		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2053-55		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	3	
C3001		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3002,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3004		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3005		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3007		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C3008		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3009		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3010		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3012		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3015		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3016		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C3017,18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3019		ECUM1H620JCN	E.CAPACITOR CH 50V 62P	1	
C3021		ECA0JM471	E.CAPACITOR 6.3V 470U	1	
C3022		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3023		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3024		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3025		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3026		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3027		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3028		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3029		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3031		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3032		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3033		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3045		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3046		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C3047		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C4001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4005		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4008		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C4010		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4011,12		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	2	
C4013,14		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C4017		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4034		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C4035,36		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C4503		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4504		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4505		ECA1VM470	E.CAPACITOR 35V 47P	1	
C4506		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4507		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4508		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C4509		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4510		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4511		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4512		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4513		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4514		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4515		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4517		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4518		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4521		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4522		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4524		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4528		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4530		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C4533		ECEA1AU330	E.CAPACITOR 10V 33U	1	
C4537		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4538		ECEA1HUR47	E.CAPACITOR 50V 0.47U	1	
C4539		ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C4541		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4545		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4551		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4556		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4558		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C4559		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4560		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4561		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4562		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4563		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4564		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4565		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4567		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4568		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4572		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4576		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4583		ECEA1AU330	E.CAPACITOR 10V 33U	1	
C4585,86		ECEA1AU101	E.CAPACITOR 10V 100U	2	
C4591		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4592		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4593		ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C4594,95		ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C4596		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4597		ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4604		ECUM1H182JN	C.CAPACITOR CH 50V 1800P	1	
C4606		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C4611		ECQB1H562JZ	P.CAPACITOR 50V 5600P	1	
C4616		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4617		ECEA10M22	E.CAPACITOR 10V 22U	1	
C4618		ECQB1H822JZ	P.CAPACITOR 50V 8200P	1	
C4621		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C4629		ECQB1H123JZ	P.CAPACITOR 50V 0.012U	1	
C4636		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4638		ECQB1H272JZ	P.CAPACITOR 50V 2700P	1	
C4652,53		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C6001		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6003		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C6006		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6007		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C6008		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C6010		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6011		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6013		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C6015,16		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	2	
C6029		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6030		ECUM1H181KBN	E.CAPACITOR CH 50V 180P	1	
C7302		ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C7304		ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C7308		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C7309		ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C7310		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7311		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7312		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	1	
C7313		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C7314,15		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	2	
C7320,21		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C7323-25		ECUM1H153KBM	C.CAPACITOR CH 50V 0.015U	3	
C7326		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7328		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C7330		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7332,33		ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	
C7337		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7339		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7340		ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7341		ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C7345		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7346		ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7347		ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C7349,50		ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C7352		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7353		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C7601		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C7603		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C7604		ECUM1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C7605		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7606		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7610		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7611		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7612		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7613		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7614		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7615		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7616		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7617		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7618		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7620		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7621,22		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7623		ECFA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7632		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7633		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7635		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7661		ECUM1H104ZFM	C.CAPACITOR CH 50V 0.1U	1	
C7662		ECUM1H683ZFM	C.CAPACITOR CH 50V 0.068U	1	
C7663		ECUM1H823ZFM	C.CAPACITOR CH 50V 0.082U	1	
C7664		ECUM1H273KBM	C.CAPACITOR CH 50V 0.027U	1	
C7665,66		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7668		ECUM1H103ZFM	C.CAPACITOR CH 50V 0.01U	1	
C7669		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7671		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7677		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7678		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7701		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7702		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7703		ECUM1H300JCN	C.CAPACITOR CH 50V 30P	1	
C7704		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C7705		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C7706,07		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7708		ECUM1HZ22KBN	C.CAPACITOR CH 50V 2200P	1	
C7709		ECFA1HKA010	E.CAPACITOR 50V 1U	1	
C7710		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C7711		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C7716		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7717		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7726		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
D301		1SS283	DIODE	1	
D304		1SS254	DIODE	1	
D305		MA723VT	DIODE	1	
D307-10		1SS254	DIODE	4	
D312		1SS254	DIODE	1	
D314-16		1SS254	DIODE	3	
D1001		MA4120-M	DIODE	1	
D1002		1SS254	DIODE	1	
D1004		MA4051-L	DIODE	1	
D1005,06		1SS254	DIODE	2	
D1102		S1WBA60BS	DIODE	1	<!>
D1103		AP01C	DIODE	1	
D1104		MA178	DIODE	1	
D1105		MA700	DIODE	1	
D1106		MA4200H	DIODE	1	
D1107		1SS254	DIODE	1	
D1121		RN2ZLF-C4	DIODE	1	
D1122		21DQ04FC4	DIODE	1	
D1123		ERA22-02	DIODE	1	
D1124		MA185	DIODE	1	
D1125		11EQS04	DIODE	1	
D1126		MA4047M	DIODE	1	
D2001		1SS355	DIODE	1	
D2003,04		1SS254	DIODE	2	
D2007		1SS355	DIODE	1	
D3007		1SS355	DIODE	1	
D3010		1SS355	DIODE	1	
D4003		1SS254	DIODE	1	
D4004		MA700A	DIODE	1	
D4005		1SS254	DIODE	1	
D4501-04		MA141K	DIODE	4	
D6001		LN59L.VT	LED	1	
D6002		1SS254	DIODE	1	
D6003		1SS355	DIODE	1	
D6007		MA4075-L	DIODE	1	
D7304		MA29T-B	DIODE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D7305		1SS254	DIODE	1	
D7307		MA151K	DIODE	1	
D7601		1SS254	DIODE	1	
D7604		1SS355	DIODE	1	
D7703		SVC251SPA	DIODE	1	
F1101		XBA2C16TB0	FUSE	1	<!>
IC301		TL8850P	IC	1	
IC302		AN3554NFBP	IC	1	
IC0701		LA7576	IC	1	
IC1001		HA17431PA	IC	1	
IC1101		STRM6559LF	IC	1	<!>
IC2001		XRA6887-V3	IC	1	
IC2004		LM358PS	IC	1	
IC3001		MM1111XFF	IC	1	
IC4501		XLH7773AKS	IC	1	
IC4601		BA7755AF	IC	1	
IC6001		MN67434VRSZ	IC	1	
IC6002,03		ON1387	PHOTO INTERRUPTER	2	
IC7301		TDA9845	IC	1	
IC7302		TA8721SN	IC	1	
IC7651		AN5043	IC	1	
IC7653		UPD4066BG	IC	1	
IC7701		UPD6464CS501	IC	1	
JK3001		VJJ0392	I/O JACK	1	
K4		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K7		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K303,04		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K307		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K314,15		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K0702		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0704,05		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
K3004		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
K4001		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4005		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4011		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4021		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4023,24		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K6002		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7302		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K7316		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
K7607		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7610		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7622		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7701		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L301		VLQ0599J470	COIL 47UH	1	
L302		VLQ0599J100	COIL 10UH	1	
L303		VLQ0599J270	COIL 27UH	1	
L304		VLQ0599J100	COIL 10UH	1	
L305		VLQ0599J680	COIL 68UH	1	
L306,07		VLQ0599J390	COIL 39UH	2	
L308		VLQ0599J150	COIL 15UH	1	
L309		VLQ0599J390	COIL 39UH	1	
L310		VLQ0599J121	COIL 120UH	1	
L311		VLQ0599J101	COIL 100UH	1	
L312		VLQ0599J8R2	COIL H	1	
L313		VLQ0599J680	COIL 68UH	1	
L314		VLQ0599J220	COIL 22UH	1	
L315		VLQ0599J101	COIL 100UH	1	
L316		VLQ0599J470	COIL 47UH	1	
L317		VLQ0599J101	COIL 100UH	1	
L318		VLQ0599J680	COIL 68UH	1	
L319		VLQ0599J270	COIL 27UH	1	
L322		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L323-28		VLP0145	COIL	6	
L330-33		VLP0145	COIL	4	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L0701		VLQ0163JR22	COIL H	1	
L0705		VLQ0163K3R3	COIL H	1	
L0706		VLQEL05S8R2K	COIL 8.2UH	1	
L1101,02		ELF18D290A	COIL 29UH	2	<!>
L1103,04		VLP0083	COIL	2	
L1105		VLP0085	COIL	1	
L1121		VLQ0611K220	COIL 22UH	1	
L1122		ELEIN220KA	COIL 22UH	1	
L1123,24		ELESE101KA	COIL 100UH	2	
L1125		VLP0085	COIL	1	
L1126		ERDS2TY0T	COIL H	1	
L1127		VLP0074	COIL	1	
L3001		VLQ0599J3R3	COIL 3.3UH	1	
L3002		VLQ0599J680	COIL 68UH	1	
L3003		VLQ0599J6R8	COIL 6.8UH	1	
L3004		VLQ0599J120	COIL 120UH	1	
L3005		VLQ0599J680	COIL 68UH	1	
L3006		VLQ0599J101	COIL 100UH	1	
L3007		VLQ0599J680	COIL 68UH	1	
L3008		VLQ0599J270	COIL 27UH	1	
L3009		VLQ0599J680	COIL 68UH	1	
L4501,02		ELESE101KA	COIL 100UH	2	
L4601		VLQEL07F153J	COIL	1	
L7601		VLQ0599J680	COIL 68UH	1	
L7602		VLQ0599J1R0	COIL 1UH	1	
L7603		VLQ0599J680	COIL 68UH	1	
L7605,06		VLQ0599J680	COIL 68UH	2	
L7609		VLQ0599J680	COIL 68UH	1	
L7610		VLQ0599J1R0	COIL 1UH	1	
L7701,02		VLQ0599J330	COIL 33UH	2	
L7703		VLQ0599J4R7	COIL H	1	
L7706		VLQ0599J330	COIL 33UH	1	
P1101		VJS3306	AC INLET	1	<!>
P2001		VJS3316A002	CONNECTOR (FEMALE) 2P	1	
P3002		VJS3537A020G	CONNECTOR (FEMALE) 20P	1	
P6001		VJS3537A032G	CONNECTOR (FEMALE) 32P	1	
P6004		VJS3820	CONNECTOR	1	
PK0701		VJR0816A010W	CONNECTOR (MALE) 10P	1	
PK4001-03		VJR0757B018T	CONNECTOR (MALE) 18P	3	
PK7301		VJR0777B007W	CONNECTOR 7P	1	
PK7302		VJR0777B005W	CONNECTOR 5P	1	
PP0701		VJP3589A004B	CONNECTOR (MALE) 4P	1	
PP2001		VJP3042A018W	CONNECTOR (MALE) 18P	1	
PP2002		VJP3042A011W	CONNECTOR (MALE) 11P	1	
PP3007		VJP3043A012W	CONNECTOR (MALE) 12P	1	
PP6005		VJP3042A003W	CONNECTOR (MALE) 3P	1	
PS301		VJR0776B009W	CONNECTOR (MALE) 9P	1	
PS302		VJR0776B013W	CONNECTOR (MALE) 13P	1	
PS303		VJR0776B006W	CONNECTOR (MALE) 6P	1	
PS7701		VJS3043B012W	CONNECTOR (FEMALE) 12P	1	
Q301,02		MSD601	TRANSISTOR	2	
Q303,04		MSC2295	TRANSISTOR	2	
Q305		MSB709	TRANSISTOR	1	
Q0701		MSD601-S	TRANSISTOR	1	
Q0702		MSB709	TRANSISTOR	1	
Q1001		2SD25440PQA	TRANSISTOR	1	
Q1002,03		2SD1996-S	TRANSISTOR	2	
Q1101		PS2561L2-1WL	TRANSISTOR	1	<!>
Q3001		XN4501	TRANSISTOR-RESISTOR	1	
Q3002		MSB710	TRANSISTOR	1	
Q3003		2SB709A	TRANSISTOR	1	
Q3004		MSD601	TRANSISTOR	1	
Q3005		MSC2295	TRANSISTOR	1	
Q3006		MSB709	TRANSISTOR	1	
Q3007		MSC2295	TRANSISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q3010		2SB709A	TRANSISTOR	1	
Q4501		2SD1991A-R	TRANSISTOR	1	
Q4551		2SB1320A-R	TRANSISTOR	1	
Q4552		2SD1819A	TRANSISTOR	1	
Q4601		2SD1819A	TRANSISTOR	1	
Q6001		MSB709	TRANSISTOR	1	
Q6002		PN205L-NC.VT	PHOTO TRANSISTOR	1	
Q7301		MSD601-S	TRANSISTOR	1	
Q7602		MSD601-S	TRANSISTOR	1	
Q7603		2SB709A-R	TRANSISTOR	1	
Q7701		MSB709	TRANSISTOR	1	
QR302		MUN2212	TRANSISTOR-RESISTOR	1	
QR303		MUN2213	TRANSISTOR-RESISTOR	1	
QR306		MUN2213	TRANSISTOR-RESISTOR	1	
QR308		IMH5	TRANSISTOR-RESISTOR	1	
QR310		MUN2213	TRANSISTOR-RESISTOR	1	
QR311		MUN2111	TRANSISTOR-RESISTOR	1	
QR312		MUN2113	TRANSISTOR-RESISTOR	1	
QR316		MUN2213	TRANSISTOR-RESISTOR	1	
QR2001		MUN2113	TRANSISTOR-RESISTOR	1	
QR2002		UN2114	TRANSISTOR-RESISTOR	1	
QR2003		FMG8	TRANSISTOR-RESISTOR	1	
QR2004		MUN2112	TRANSISTOR-RESISTOR	1	
QR2006,07		IMD8	TRANSISTOR-RESISTOR	2	
QR2008		XN1213	TRANSISTOR-TRANSISTOR	1	
QR2014		MUN2213	TRANSISTOR-RESISTOR	1	
QR3001		MUN2111	TRANSISTOR-RESISTOR	1	
QR3002,03		DTC363EK	TRANSISTOR-RESISTOR	2	
QR3005		MUN2213	TRANSISTOR-RESISTOR	1	
QR3007		MUN2211	TRANSISTOR-RESISTOR	1	
QR3008		XN4213	TRANSISTOR-RESISTOR	1	
QR4001		MUN2212	TRANSISTOR-RESISTOR	1	
QR4002,03		MUN2213	TRANSISTOR-RESISTOR	2	
QR4508,09		UN5113	TRANSISTOR-RESISTOR	2	
QR4510		UN5212	TRANSISTOR-RESISTOR	1	
QR4602		UN5111	TRANSISTOR-RESISTOR	1	
QR4603		UN5213	TRANSISTOR-RESISTOR	1	
QR6001		XN1211	TRANSISTOR-RESISTOR	1	
QR6003		MUN2211	TRANSISTOR-RESISTOR	1	
QR7304		MUN2213	TRANSISTOR-RESISTOR	1	
QR7601		MUN2213	TRANSISTOR-RESISTOR	1	
QR7606		MUN2211	TRANSISTOR-RESISTOR	1	
R301,02		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R303		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R304		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R305		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R306		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R307		ERJ6GMYK225	M.RESISTOR CH 1/10W 2.2M	1	
R308		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R310		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R311		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R312		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R313,14		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R315		ERJ6GMYJ684	M.RESISTOR CH 1/10W 680K	1	
R317		ERJ6GMYG221	M.RESISTOR CH 1/10W 220	1	
R318		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R319		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R320		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R321		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R322		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R324		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R325		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R326		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R327		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R328		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R329		ERJ6GMYG471	M.RESISTOR CH 1/10W 470	1	
R330		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R331		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R332		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R334		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R336		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R337		ERJ6GMYG201	M.RESISTOR CH 1/10W 68K	1	
R339		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R340		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R341		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R342,43		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R344		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R345		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R346		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R347,48		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R349		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R350		ERJ6GMYK225	M.RESISTOR CH 1/10W 2.2M	1	
R351		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R353		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R358		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R359		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R361		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R362		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R363		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R364		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R367		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R369		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R371		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R372		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R373		ERJ6GMYJ334	M.RESISTOR CH 1/10W 330K	1	
R0702		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R0704		ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R0705		ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R0706,07		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R0708		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R0709		ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R0710		ERJ6GEYJ394	M.RESISTOR CH 1/10W 390K	1	
R0713		ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R0714		ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R0715		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R0716		VRE0040E151	M.RESISTOR CH 1/10W 150	1	
R0717		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R0718		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0719		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R0720		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0722		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R0728		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R0729		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0732		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R0783		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1001		ERDS1TJ472	C.RESISTOR 1/2W 4.7K	1	
R1002		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R1003		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R1004		ERJ6GMYJ303	M.RESISTOR CH 1/10W 30K	1	
R1005		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R1006		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R1101		ERC12AGM334	S.RESISTOR 1/2W 330K	1	<!>
R1102		ERG1SJ683	M.RESISTOR 1W 68K	1	
R1103,04		ERDS2TJ224	C.RESISTOR 1/4W 220K	2	
R1105		ERJ8GEYK395	M.RESISTOR CH 1/8W 3.9M	1	
R1106		ERJ8GEYK475	M.RESISTOR CH 1/8W 4.7M	1	
R1107		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R1108		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R1109		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R1110		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1111,12		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	2	
R1113		ERX1SJR82	M.RESISTOR 1W 0.82	1	
R1114		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R1117		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R1121		ERJ6GMYJ220	M.RESISTOR CH 1/10W 22	1	
R1122		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2001		ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R2002		ERJ6GMYG913	M.RESISTOR CH 1/10W 91K	1	
R2003		ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1	
R2004		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R2005,06		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R2007		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2011		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2013-15		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	3	
R2017,18		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	2	
R2019		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R2020		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2021		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R2023		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2025		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2027.28		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R2029,30		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R2031		ERJ6GMYJ244	M.RESISTOR CH 1/10W 240K	1	
R2035		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2037		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2038		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R2039		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2040		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2041		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2042,43		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2044		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2045		ERJ6GMYJ753	M.RESISTOR CH 1/10W 75K	1	
R2046		ERJ6GMYG273	M.RESISTOR CH 1/10W 27K	1	
R2047		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R2048		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R2049		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2050		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R2051		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2052		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2053,54		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R2059		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2060,61		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	2	
R2062		ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1	
R2063,64		ERDS2FJ6R8	C.RESISTOR 1/4W 6.8	2	
R3001,02		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R3003		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3004		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3005		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3006		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3007		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3008,09		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R3010		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R3012		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R3015		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3017		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3018		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3019,20		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	2	
R3021		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R3022		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3023,24		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R3025		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3026		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3028		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3030		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3033		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3034		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3035		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R3036		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3037		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3038,39		ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R3040,41		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	2	
R4001		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4002		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4014		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4018		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4021		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4022		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R4023		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R4024		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4025		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R4043		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4046		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R4055		ERG2SJ821	M.RESISTOR 2W 820	1	
R4056		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4058		ERG2SJ101	M.RESISTOR 2W 100	1	
R4501,02		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4503		ERJ3GEYG223	M.RESISTOR CH 1/16W 22K	1	
R4506,07		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4508		ERJ3GEYG224	M.RESISTOR CH 1/16W 220K	1	
R4509		VRE0071E622	M.RESISTOR CH 1/10W 6.2K	1	
R4511		ERJ3GEYG273	M.RESISTOR CH 1/16W 27K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4512		VRE0071E163	M.RESISTOR CH 1/10W 16K	1	
R4513		ERJ3GEYG103	M.RESISTOR CH 1/16W 10K	1	
R4514		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4518,19		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4522		ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R4527		VRE0071E333	M.RESISTOR 33K	1	
R4528		VRE0071E153	M.RESISTOR 15K	1	
R4529		ERJ3GEYG562	M.RESISTOR CH 1/16W 5.6K	1	
R4530		ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4534		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4535		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4539		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4541		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4542		ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4543		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4551,52		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	2	
R4553,54		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4558		ERJ3GEYG224	M.RESISTOR CH 1/16W 220K	1	
R4561		ERJ3GEYG273	M.RESISTOR CH 1/16W 27K	1	
R4562		VRE0034E10C	M.RESISTOR CH 1/10W	1	
R4563		ERJ3GEYG272	M.RESISTOR CH 1/16W 2.7K	1	
R4568,69		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4572		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4573		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4577		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4578		VRE0071E473	M.RESISTOR CH 1/10W 47K	1	
R4581		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4583		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4584		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4585,86		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4587,88		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4591		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4592		ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4593		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4594		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4596		ERJ3GEYG473	M.RESISTOR CH 1/16W 47K	1	
R4597		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4598,99		ERJ3GEYG104	M.RESISTOR CH 1/16W 100K	2	
R4603		ERJ3GEYG183	M.RESISTOR CH 1/16W 18K	1	
R4606		VRE0071E562	M.RESISTOR 5.6K	1	
R4610		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4611		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4612		VRE0071E331	M.RESISTOR CH 1/10W 330	1	
R4613		ERJ3GEYG394	M.RESISTOR CH 1/16W 390K	1	
R4615		VRE0071E133	M.RESISTOR CH 1/10W 13K	1	
R4616		ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4649		ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4651		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R4653		ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4654		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4655		ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4656		ERJ3GEYG243	M.RESISTOR CH 1/16W 24K	1	
R4657		ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4666		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R4670		ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R4671		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6001		ERJ6GMYJ201	M.RESISTOR CH 1/10W 200	1	
R6002		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R6003		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6004		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6005-07		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	3	
R6008		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6009-11		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R6013		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6014,15		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	2	
R6016		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6017		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6018		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6020		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R6022		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6023		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6024-29		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	6	
R6030		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R6031		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6032,33		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6034,35		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6037		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6039,40		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R7302		ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R7303		ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R7304		ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R7305		ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R7307		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R7311		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7313		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R7320		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7323		ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R7324,25		ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R7326		ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R7327		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7328		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7329		ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R7330		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7331		ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R7336		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R7337		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R7345		ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R7352,53		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R7354,55		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R7358,59		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R7362,63		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R7601		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R7603		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7604		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7605,06		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	2	
R7607		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R7608		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7609		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7610		ERDS2TJ332	C.RESISTOR 1/4W 3.3K	1	
R7617		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7657		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7671,72		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R7673		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R7674		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R7675		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7676		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7677		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7678		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R7679		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7680		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7681,82		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R7683		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R7684		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R7690		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7702		ERJ6GEYJ512	M.RESISTOR CH 1/10W 5.1K	1	
R7703		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7704		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7706		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7724		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
SW3001		VSS0398	SWITCH	1	
T0703		EQV5EC071A	TRANSFORMER	1	
T0704		EQV5EC073A	TRANSFORMER	1	
T1101		ETE28K94AY	TRANSFORMER	1	<!>
T7301		EQR7QG028P	TRANSFORMER	1	
T7304		EIS5EC017A	TRANSFORMER	1	
T7305		EQS5EC033A	TRANSFORMER	1	
VR301		EVMEASA00B14	V.RESISTOR	1	
VR302		EVMEASA00B53	V.RESISTOR	1	
VR303		EVMEASA00B24	V.RESISTOR	1	
VR0701		EVNCBAA00B24	V.RESISTOR	1	
VR2001		EVNCYAA03B54	V.RESISTOR	1	
VR3001,02		EVNCYAA03B23	V.RESISTOR	2	
VR3012,13		EVNCYAA03B52	V.RESISTOR	2	
VR4501		EVMECSA00B53	V.RESISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR4502		EVMEASA00BY4	V.RESISTOR	1	
VR4507		EVMEASA00BY4	V.RESISTOR	1	
VR4509		EVMECSA00BY3	V.RESISTOR	1	
VR4550		EVMECSA00B14	V.RESISTOR	1	
VR4551,52		EVMEASA00B55	V.RESISTOR	2	
VR7301,02		EVNCBAA00B53	V.RESISTOR	2	
X301		VSX0162	CRYSTAL OSCILLATOR	1	
X0703		EFCWS2F11T	CRYSTAL OSCILLATOR	1	
X0704		VLF1077	CRYSTAL OSCILLATOR	1	
X0705		VLF1136	CRYSTAL OSCILLATOR	1	
X6001		VSX0609	CRYSTAL OSCILLATOR	1	
X7301		EFCT5R5MS5	CRYSTAL OSCILLATOR	1	
X7304		EFCT5R74MS5B	CRYSTAL OSCILLATOR	1	
X7305		VSX0648	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMD2029	REEL GUIDE	1	
		VSC4141	SE SHIELD COVER	1	
		VWJ0875	FLAT CARD CABLE	1	P3002-P501
		VWJ32C9160BB	FLAT CARD CABLE	1	P6001-P7501
		EYF52BC	FUSE HOLDER	2	<!>
		ENG47208N	TUNER	1	<!>
		VMP4471	TV DEMODULATOR ANGLE	1	FOR TV DEMODU.
		VMD1926	SENSOR LED HOLDER	1	FOR D6001
		VMD1927	PHOTO TR. HOLDER	1	FOR Q6002
	■	VEP06977G	MAIN C.B.A.		(RTL)<!>NV-HD600EA
C301		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C302		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C303		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C304		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C305		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C306		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C307		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C308		ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	1	
C309		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C310-12		ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	3	
C313		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C314		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C315		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C316		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C317		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C318,19		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C321		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C322		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C323		ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	1	
C324		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C325		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C326		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C327		ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	1	
C328		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C329		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C330		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C331,32		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C333		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C334		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C335		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C336		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C340		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C341		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C342		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C343		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C344		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C345		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C347		ECUM1E154KBM	C.CAPACITOR CH 25V 0.15U	1	
C348		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C349		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C350		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C351		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C352		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C353		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C354		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C355		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C356		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C357		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C358,59		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C360		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C361		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C362		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C363		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C364		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C365		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C366		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C367-72		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C373		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C374		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C375		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C376		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C378		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C379		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C380		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C381		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C383		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C386		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C387		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C391		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C392		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C394		ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	1	
C0701,02		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0704		ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C0706		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C0707,08		ECUX1H1032FV	C.CAPACITOR CH 50V 0.01U	2	
C0709		ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C0710		ECUX1H470JPV	C.CAPACITOR CH 50V 47P	1	
C0711		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0712		ECUX1H1032FV	C.CAPACITOR CH 50V 0.01U	1	
C0714		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C0715		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C0716		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0717		ECUX1H270JPV	C.CAPACITOR CH 50V 27P	1	
C0718		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C0719		ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C0720		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0723		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C0726		ECUX1H1032FV	C.CAPACITOR CH 50V 0.01U	1	
C0730		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C1001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1002		ECA1CM470	E.CAPACITOR 16V 47U	1	
C1003		ECA1CM101	E.CAPACITOR 16V 10U	1	
C1004		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1005		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C1006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1007		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C1008		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C1009,10		ECEA0JKA101	E.CAPACITOR 6.3V 100U	2	
C1101,02		ECKMWS471MBH	C.CAPACITOR	2	<!>
C1103		ECKMWS102MEH	C.CAPACITOR	1	<!>
C1104		ECQU2A154MNB	P.CAPACITOR 250V 0.15U	1	<!>
C1105		ECQU2A683MN	P.CAPACITOR 250V 0.068U	1	<!>
C1106		ECEC2GG680	E.CAPACITOR 400V 68U	1	
C1107		ECKD2H103PU	C.CAPACITOR 500V 0.01U	1	
C1108		ECCD3A121KGE	C.CAPACITOR 1KV 120P	1	
C1109		ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C1110		ECA0GXLV331	E.CAPACITOR 4V 330U	1	
C1111		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1113		ECUM1H822KBN	C.CAPACITOR CH 50V 8200P	1	
C1131		EEUFA1E681	E.CAPACITOR 25V 680P	1	
C1132		ECEA1EU221	E.CAPACITOR 25V 220U	1	
C1133		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1134		EEUFA1A391B	E.CAPACITOR 10V 390P	1	
C1135		ECEA1AU331	E.CAPACITOR 10V 330U	1	
C1136		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1137		ECEA1JFE470	E.CAPACITOR 63V 47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1138		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1139		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1140		ECA1VFQ560	E.CAPACITOR 35V 56U	1	
C1141		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1143		ECA0JFQ221	E.CAPACITOR 6.3V 220U	1	
C1144,45		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2013		ECQV1H334JM	P.CAPACITOR 50V 0.33U	1	
C2022		ECEA1EKS330	E.CAPACITOR 25V 33U	1	
C2023		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2024		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2025,26		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C2029,30		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C2031		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C2032		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C2033		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2034		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2035		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C2037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2038		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2039		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C2040		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2047		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2049-51		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	3	
C2052		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2053-55		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	3	
C3001		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3002,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3004		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3005		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3007		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C3008		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3009		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3010		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3012		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3015		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3016		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C3017,18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3019		ECUM1H620JCN	E.CAPACITOR CH 50V 62P	1	
C3021		ECA0JM471	E.CAPACITOR 6.3V 470U	1	
C3022		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3023		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3024		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3025		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3026		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3027		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3028		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3029		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3031		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3032		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3033		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3045		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3046		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C3047		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C4001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4005		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4008		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C4010		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4011,12		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	2	
C4013,14		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C4017		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4034		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C4035,36		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C4503		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4504		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4505		ECA1VM470	E.CAPACITOR 35V 47P	1	
C4506		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4507		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4508		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C4509		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4510		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4511		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4512		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4513		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4514		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4515		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4517		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4518		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4521		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4522		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4524		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4528		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4530		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C4533		ECEA1AU330	E.CAPACITOR 10V 33U	1	
C4537		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4538		ECEA1HUR47	E.CAPACITOR 50V 0.47U	1	
C4539		ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C4541		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4545		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4551		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4556		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4558		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C4559		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4560		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4561		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4562		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4563		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4564		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4565		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4567		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4568		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4572		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4576		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4583		ECEA1AU330	E.CAPACITOR 10V 33U	1	
C4585,86		ECEA1AU101	E.CAPACITOR 10V 100U	2	
C4591		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4592		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4593		ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C4594,95		ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C4596		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4597		ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4604		ECUM1H182JN	C.CAPACITOR CH 50V 1800P	1	
C4606		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C4616		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4617		ECEA10M22	E.CAPACITOR 10V 22U	1	
C4618		ECQB1H822JZ	P.CAPACITOR 50V 8200P	1	
C4621		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C4629		ECQB1H822JZ	P.CAPACITOR 50V 8200P	1	
C4636		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4638		ECQB1H822JZ	P.CAPACITOR 50V 8200P	1	
C4652,53		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C6001		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6002		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C6003		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C6006		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6007		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C6008		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C6010		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6011		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6013		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C6015,16		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	2	
C6029		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6030		ECUM1H181KBN	E.CAPACITOR CH 50V 180P	1	
C7301,02		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C7303		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C7304		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7305		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C7306		ECUX1H391JCV	C.CAPACITOR CH 50V 390P	1	
C7309-12		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	4	
C7313		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C7314		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7315		ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C7317		ECUX1H090DCV	C.CAPACITOR CH 50V 90P	1	
C7319		ECRHA020D54	V.CAPACITOR	1	
C7320		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7321		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7322		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C7323,24		ECUX1H391JCV	C.CAPACITOR CH 50V 390P	2	
C7325,26		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C7327		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7328		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C7329,30		ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C7331		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7332,33		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C7334		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7335		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C7338		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C7339		ECUM1H182KBM	C.CAPACITOR CH 50V 1800P	1	
C7340		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C7341		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7342		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C7343		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C7344		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C7345		ECUM1H182KBM	C.CAPACITOR CH 50V 1800P	1	
C7346		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C7347		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7348		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C7350		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C7351		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C7352		ECUM1H182KBM	C.CAPACITOR CH 50V 1800P	1	
C7353		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C7354		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7355		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C7357		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C7358		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C7359		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C7365,66		ECEA1HKA010	E.CAPACITOR 50V 1U	2	
C7369		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7370		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C7371,72		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C7374,75		ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C7601		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C7603		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C7604		ECUM1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C7605		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7606		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7610		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7611		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7612		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7613		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7614		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7615		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7616		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7617		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7618		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7620		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7621,22		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7623		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7632		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7633		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7635		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7661		ECUM1H104ZFM	C.CAPACITOR CH 50V 0.1U	1	
C7662		ECUM1H683ZFM	C.CAPACITOR CH 50V 0.068U	1	
C7663		ECUM1H823ZFM	C.CAPACITOR CH 50V 0.082U	1	
C7664		ECUM1H273KBM	C.CAPACITOR CH 50V 0.027U	1	
C7665,66		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7668		ECUM1H103ZFM	C.CAPACITOR CH 50V 0.01U	1	
C7669		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7671		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7677		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7678		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7701		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7702		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7703		ECUM1H300JCN	C.CAPACITOR CH 50V 30P	1	
C7704		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C7705		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C7706,07		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7708		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C7709		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C7710		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C7711		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C7716		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7717		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7726		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D301		1SS283	DIODE	1	
D304		1SS254	DIODE	1	
D305		MA723VT	DIODE	1	
D307-10		1SS254	DIODE	4	
D312		1SS254	DIODE	1	
D316		1SS254	DIODE	1	
D1001		MA4120-M	DIODE	1	
D1002		1SS254	DIODE	1	
D1004		MA4051-L	DIODE	1	
D1005,06		1SS254	DIODE	2	
D1102		S1WBA60BS	DIODE	1	<!>
D1103		AP01C	DIODE	1	
D1104		MA178	DIODE	1	
D1105		MA700	DIODE	1	
D1106		MA4200H	DIODE	1	
D1107		1SS254	DIODE	1	
D1121		RN2ZLF-C4	DIODE	1	
D1122		21DQ04FC4	DIODE	1	
D1123		ERA22-02	DIODE	1	
D1124		MA185	DIODE	1	
D1125		11EQS04	DIODE	1	
D1126		MA4047M	DIODE	1	
D2001		1SS355	DIODE	1	
D2003,04		1SS254	DIODE	2	
D2007		1SS355	DIODE	1	
D3007		1SS355	DIODE	1	
D3010		1SS355	DIODE	1	
D4003		1SS254	DIODE	1	
D4005		1SS254	DIODE	1	
D4501-04		MA141K	DIODE	4	
D6001		LN59L.VT	LED	1	
D6002		1SS254	DIODE	1	
D6003		1SS355	DIODE	1	
D6007		MA4075-L	DIODE	1	
D7301		MA3082-L	DIODE	1	
D7302		MA151K	DIODE	1	
D7303		MA151WK	DIODE	1	
D7304		MA717	DIODE	1	
D7306		MA151K	DIODE	1	
D7601		1SS254	DIODE	1	
D7604		1SS355	DIODE	1	
D7703		SVC251SPA	DIODE	1	
F1101		XBA2C16TB0	FUSE	1	<!>
FL7301,02		VLF0633	FILTER	2	
IC301		TL8850P	IC	1	
IC302		AN3554NFBP	IC	1	
IC0701		LA7576	IC	1	
IC1001		HA17431PA	IC	1	
IC1101		STRM6559LF	IC	1	<!>
IC2001		XRA6887-V3	IC	1	
IC2004		LM358PS	IC	1	
IC3001		MM1111XFF	IC	1	
IC4501		XLH7773AKS	IC	1	
IC4601		BA7755AF	IC	1	
IC6001		MN67434VRSZ	IC	1	
IC6002,03		ON1387	PHOTO INTERRUPTER	2	
IC7301		MSP3410-15	IC	1	
IC7302		PST7043	IC	1	
IC7303		M5238FP	IC	1	
IC7304		HA17431PA	IC	1	
IC7305		MN155402VZBZ	IC	1	
IC7306		PST7043	IC	1	
IC7651		AN5043	IC	1	
IC7653		UPD4066BG	IC	1	
IC7701		UPD6464CS501	IC	1	
JK3001		VJJ0392	I/O JACK	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
K4		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K7		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K303,04		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K307		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K314,15		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K0702		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0704,05		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
K2001		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K3004		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
K4001		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4005		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4011		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4021		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4023,24		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K6002		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7304-07		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
K7314		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K7317		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K7607		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7610		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7622		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7701		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L301		VLQ0599J470	COIL 47UH	1	
L302		VLQ0599J100	COIL 10UH	1	
L303		VLQ0599J270	COIL 27UH	1	
L304		VLQ0599J100	COIL 10UH	1	
L305		VLQ0599J680	COIL 68UH	1	
L306,07		VLQ0599J390	COIL 39UH	2	
L308		VLQ0599J150	COIL 15UH	1	
L309		VLQ0599J390	COIL 39UH	1	
L310		VLQ0599J121	COIL 120UH	1	
L311		VLQ0599J101	COIL 100UH	1	
L312		VLQ0599J8R2	COIL H	1	
L313		VLQ0599J680	COIL 68UH	1	
L314		VLQ0599J220	COIL 22UH	1	
L315		VLQ0599J101	COIL 100UH	1	
L316		VLQ0599J470	COIL 47UH	1	
L317		VLQ0599J101	COIL 100UH	1	
L318		VLQ0599J680	COIL 68UH	1	
L319		VLQ0599J270	COIL 27UH	1	
L322		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L323-28		VLP0145	COIL	6	
L330-33		VLP0145	COIL	4	
L0701		VLQ0163JR39	COIL H	1	
L0705		VLQ0163J5R6	COIL 5.6UH	1	
L0706		VLQEL05S120J	COIL 12UH	1	
L1101		ELF18D290A	COIL 29UH	1	<!>
L1102		ELF18D221F	COIL 220UH	1	<!>
L1103,04		VLP0083	COIL	2	
L1105		VLP0085	COIL	1	
L1121		VLQ0611K220	COIL 22UH	1	
L1122		ELELN220KA	COIL 22UH	1	
L1123,24		ELESE101KA	COIL 100UH	2	
L1125		VLP0085	COIL	1	
L1126		ERDS2TY0T	COIL H	1	
L1127		VLP0074	COIL	1	
L3001		VLQ0599J3R3	COIL 3.3UH	1	
L3002		VLQ0599J680	COIL 68UH	1	
L3003		VLQ0599J6R8	COIL 6.8UH	1	
L3004		VLQ0599J120	COIL 120UH	1	
L3005		VLQ0599J680	COIL 68UH	1	
L3006		VLQ0599J101	COIL 100UH	1	
L3007		VLQ0599J680	COIL 68UH	1	
L3008		VLQ0599J270	COIL 27UH	1	
L3009		VLQ0599J680	COIL 68UH	1	
L4501,02		ELESE101KA	COIL 100UH	2	
L4601		VLQEL07F153J	COIL	1	
L7301		ELEXH100JBV	COIL 10UH	1	
L7302		VLP0150	INDUCTOR	1	
L7601		VLQ0599J680	COIL 68UH	1	
L7602		VLQ0599J1R0	COIL 1UH	1	
L7603		VLQ0599J680	COIL 68UH	1	
L7605,06		VLQ0599J680	COIL 68UH	2	
L7609		VLQ0599J680	COIL 68UH	1	
L7610		VLQ0599J1R0	COIL 1UH	1	
L7701,02		VLQ0599J330	COIL 33UH	2	
L7703		VLQ0599J4R7	COIL H	1	
L7706		VLQ0599J330	COIL 33UH	1	
P1101		VJS3306	AC INLET	1	<!>
P2001		VJS3316A002	CONNECTOR (FEMALE) 2P	1	
P3002		VJS3537A020G	CONNECTOR (FEMALE) 20P	1	
P6001		VJS3537A032G	CONNECTOR (FEMALE) 32P	1	
P6004		VJS3820	CONNECTOR	1	
PK0701		VJR0816A010W	CONNECTOR (MALE) 10P	1	
PK4001-03		VJR0757B018T	CONNECTOR (MALE) 18P	3	
PK7301		VJR0777B009W	CONNECTOR 9P	1	
PK7302		VJR0777B008W	CONNECTOR 8P	1	
PP0701		VJP3589A004B	CONNECTOR (MALE) 4P	1	
PP2001		VJP3042A017W	CONNECTOR (MALE) 17P	1	
PP2002		VJP3042A011W	CONNECTOR (MALE) 11P	1	
PP3007		VJP3043A012W	CONNECTOR (MALE) 12P	1	
PP6005		VJP3042A003W	CONNECTOR (MALE) 3P	1	
PS301		VJR0776B009W	CONNECTOR (MALE) 9P	1	
PS302		VJR0776B013W	CONNECTOR (MALE) 13P	1	
PS303		VJR0776B006W	CONNECTOR (MALE) 6P	1	
PS7701		VJS3043B012W	CONNECTOR (FEMALE) 12P	1	
Q301,02		MSD601	TRANSISTOR	2	
Q303,04		MSC2295	TRANSISTOR	2	
Q305		MSB709	TRANSISTOR	1	
Q0701		MSD601-S	TRANSISTOR	1	
Q0702		MSB709	TRANSISTOR	1	
Q1001		2SD2544OPQA	TRANSISTOR	1	
Q1002,03		2SD1996-S	TRANSISTOR	2	
Q1101		PS2561L2-1WL	TRANSISTOR	1	<!>
Q3001		XN4501	TRANSISTOR-RESISTOR	1	
Q3002		MSB710	TRANSISTOR	1	
Q3003		2SB709A	TRANSISTOR	1	
Q3004		MSD601	TRANSISTOR	1	
Q3005		MSC2295	TRANSISTOR	1	
Q3006		MSB709	TRANSISTOR	1	
Q3007		MSC2295	TRANSISTOR	1	
Q3010		2SB709A	TRANSISTOR	1	
Q4501		2SD1991A-R	TRANSISTOR	1	
Q4551		2SB1320A-R	TRANSISTOR	1	
Q4552		2SD1819A	TRANSISTOR	1	
Q6001		MSB709	TRANSISTOR	1	
Q6002		PN205L-NC.VT	PHOTO TRANSISTOR	1	
Q7301,02		2SD1996	TRANSISTOR	2	
Q7304		2SC2404	TRANSISTOR	1	
Q7305		MSD601-S	TRANSISTOR	1	
Q7308-10		2SB709A	TRANSISTOR	3	
Q7311-13		MSD1328-S	TRANSISTOR	3	
Q7602		MSD601-S	TRANSISTOR	1	
Q7603		2SB709A-R	TRANSISTOR	1	
Q7701		MSB709	TRANSISTOR	1	
QR302		MUN2212	TRANSISTOR-RESISTOR	1	
QR303		MUN2213	TRANSISTOR-RESISTOR	1	
QR306		MUN2213	TRANSISTOR-RESISTOR	1	
QR308		IMH5	TRANSISTOR-RESISTOR	1	
QR310		MUN2213	TRANSISTOR-RESISTOR	1	
QR312		MUN2113	TRANSISTOR-RESISTOR	1	
QR316		MUN2213	TRANSISTOR-RESISTOR	1	
QR2001		MUN2113	TRANSISTOR-RESISTOR	1	
QR2002		UN2114	TRANSISTOR-RESISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR2003		FMG8	TRANSISTOR-RESISTOR	1	
QR2004		MUN2112	TRANSISTOR-RESISTOR	1	
QR2005-07		IMD8	TRANSISTOR-RESISTOR	3	
QR2008		XN1213	TRANSISTOR-TRANSISTOR	1	
QR2014		MUN2213	TRANSISTOR-RESISTOR	1	
QR3001		MUN2111	TRANSISTOR-RESISTOR	1	
QR3002,03		DTC363EK	TRANSISTOR-RESISTOR	2	
QR3005		MUN2213	TRANSISTOR-RESISTOR	1	
QR3007		MUN2211	TRANSISTOR-RESISTOR	1	
QR3008		XN4213	TRANSISTOR-RESISTOR	1	
QR4001		MUN2212	TRANSISTOR-RESISTOR	1	
QR4002,03		MUN2213	TRANSISTOR-RESISTOR	2	
QR4508,09		UN5113	TRANSISTOR-RESISTOR	2	
QR4510		UN5212	TRANSISTOR-RESISTOR	1	
QR6001		XN1211	TRANSISTOR-RESISTOR	1	
QR6003		MUN2211	TRANSISTOR-RESISTOR	1	
QR7301		MUN2213	TRANSISTOR-RESISTOR	1	
QR7302		MUN2112	TRANSISTOR-RESISTOR	1	
QR7601		MUN2213	TRANSISTOR-RESISTOR	1	
QR7606		MUN2211	TRANSISTOR-RESISTOR	1	
R301,02		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R303		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R304		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R305		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R306		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R307		ERJ6GMYK225	M.RESISTOR CH 1/10W 2.2M	1	
R308		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R310		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R311		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R312		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R313,14		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R315		ERJ6GMYJ684	M.RESISTOR CH 1/10W 680K	1	
R317		ERJ6GMYG221	M.RESISTOR CH 1/10W 220	1	
R318		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R319		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R320		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R321		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R322		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R324		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R325		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R326		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R327		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R328		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R329		ERJ6GMYG471	M.RESISTOR CH 1/10W 470	1	
R330		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R331		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R332		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R334		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R336		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R337		ERJ6GMYG201	M.RESISTOR CH 1/10W 68K	1	
R339		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R340		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R341		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R342,43		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R344		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R345		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R346		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R347,48		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R349		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R350		ERJ6GMYK225	M.RESISTOR CH 1/10W 2.2M	1	
R351		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R353		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R359		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R361		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R362		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R363		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R364		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R367		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R369		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R371		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R372		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R373		ERJ6GMYJ334	M.RESISTOR CH 1/10W 330K	1	
R0702		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R0704		ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R0705		ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R0706,07		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R0708		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R0709		ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R0710		ERJ6GEYJ394	M.RESISTOR CH 1/10W 390K	1	
R0713		ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R0714		ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R0715		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R0716		VRE0040E151	M.RESISTOR CH 1/10W 150	1	
R0717		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R0718		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0719		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R0720		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0722		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R0728		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R0729		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0732		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R0783		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1001		ERDS1TJ472	C.RESISTOR 1/2W 4.7K	1	
R1002		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R1003		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R1004		ERJ6GMYJ303	M.RESISTOR CH 1/10W 30K	1	
R1005		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R1006		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R1101		ERC12AGM334	S.RESISTOR 1/2W 330K	1	<!>
R1102		ERC1SJ683	M.RESISTOR 1W 68K	1	
R1103,04		ERDS2TJ224	C.RESISTOR 1/4W 220K	2	
R1105		ERJ8GEYK395	M.RESISTOR CH 1/8W 3.9M	1	
R1106		ERJ8GEYK475	M.RESISTOR CH 1/8W 4.7M	1	
R1107		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R1108		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R1109		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R1110		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1111,12		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	2	
R1113		ERX1SJR82	M.RESISTOR 1W 0.82	1	
R1114		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R1117		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R1121		ERJ6GMYJ220	M.RESISTOR CH 1/10W 22	1	
R1122		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2001		ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R2002		ERJ6GMYG913	M.RESISTOR CH 1/10W 91K	1	
R2003		ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1	
R2004		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R2005,06		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R2007		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2011		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2013-15		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	3	
R2017,18		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	2	
R2019		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R2020		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2021		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R2023		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2025		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2027,28		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R2029,30		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R2035		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2037		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2038		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R2039		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2040		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2041		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2042,43		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2044		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2045		ERJ6GMYJ753	M.RESISTOR CH 1/10W 75K	1	
R2046		ERJ6GMYG273	M.RESISTOR CH 1/10W 27K	1	
R2047		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R2048		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R2049		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2050		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R2051		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2052		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2053,54		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R2059		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2060,61		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2062		ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1	
R2063,64		ERDS2FJ6R8	C.RESISTOR 1/4W 6.8	2	
R3001,02		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R3003		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3004		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3005		ERJ5GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3006		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3007		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3008,09		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R3010		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R3012		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R3015		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3017		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3018		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3019,20		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	2	
R3021		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R3022		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3023,24		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R3025		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3026		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3028		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3030		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3033		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3034		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3035		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R3036		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3037		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3038,39		ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R3040,41		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
R4001		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4014		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4018		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4021		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4022		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R4023		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R4024		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4025		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R4043		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4046		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R4055		ERG2SJ821	M.RESISTOR 2W 820	1	
R4056		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4058		ERG2SJ101	M.RESISTOR 2W 100	1	
R4501,02		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4503		ERJ3GEYG223	M.RESISTOR CH 1/16W 22K	1	
R4504,05		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	2	
R4506,07		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4508		ERJ3GEYG224	M.RESISTOR CH 1/16W 220K	1	
R4509		VRE0071E622	M.RESISTOR CH 1/10W 6.2K	1	
R4511		ERJ3GEYG273	M.RESISTOR CH 1/16W 27K	1	
R4512		VRE0071E163	M.RESISTOR CH 1/10W 16K	1	
R4513		ERJ3GEYG103	M.RESISTOR CH 1/16W 10K	1	
R4518,19		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4522		ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R4527		VRE0071E333	M.RESISTOR 33K	1	
R4528		VRE0071E153	M.RESISTOR 15K	1	
R4529		ERJ3GEYG562	M.RESISTOR CH 1/16W 5.6K	1	
R4530		ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4534		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4535		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4539		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4541		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4542		ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4543		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4551,52		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	2	
R4553,54		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4558		ERJ3GEYG224	M.RESISTOR CH 1/16W 220K	1	
R4561		ERJ3GEYG273	M.RESISTOR CH 1/16W 27K	1	
R4562		VRE0034E10C	M.RESISTOR CH 1/10W	1	
R4563		ERJ3GEYG272	M.RESISTOR CH 1/16W 2.7K	1	
R4568,69		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4572		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4573		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4577		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4578		VRE0071E473	M.RESISTOR CH 1/10W 47K	1	
R4581		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4583		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4584		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4585,86		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4587,88		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4591		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4592		ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4593		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4594		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4596		ERJ3GEYG473	M.RESISTOR CH 1/16W 47K	1	
R4597		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4598,99		ERJ3GEYG104	M.RESISTOR CH 1/16W 100K	2	
R4603		ERJ3GEYG183	M.RESISTOR CH 1/16W 18K	1	
R4606		VRE0071E562	M.RESISTOR 5.6K	1	
R4610		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4611		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4612		VRE0071E331	M.RESISTOR CH 1/10W 330	1	
R4613		ERJ3GEYG394	M.RESISTOR CH 1/16W 390K	1	
R4615		VRE0071E133	M.RESISTOR CH 1/10W 13K	1	
R4616		ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4649		ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4653		ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R4656		ERJ3GEYG243	M.RESISTOR CH 1/16W 24K	1	
R4657		ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4666		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R4670		ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R4671		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6001		ERJ6GMYJ201	M.RESISTOR CH 1/10W 200	1	
R6002		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R6003		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6004		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6005-07		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	3	
R6008		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6009-11		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R6013		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6014,15		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	2	
R6016		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6017		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6018		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6020		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R6022		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6023		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6024-29		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	6	
R6030		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R6031		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6032,33		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6034,35		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6037		ERJ6GM20R00	M.RESISTOR CH 1/10W 0	1	
R6039,40		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R7301		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7302		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R7303		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R7308		ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R7309,10		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	2	
R7311		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7312		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7313,14		ERJ3GEYG272	M.RESISTOR CH 1/16W 2.7K	2	
R7315		ERJ3GEYJ114	M.RESISTOR CH 1/16W 110K	1	
R7316		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R7317		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R7320		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R7321-23		ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	3	
R7324		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7325		ERJ3GEYG122	M.RESISTOR CH 1/16W 1.2K	1	
R7326		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R7327-29		ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	3	
R7330		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7332		ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R7333		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R7334-36		ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	3	
R7337		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7339		ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R7341-43		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	3	
R7344		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7346		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R7350		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7351		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R7352-56		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R7357		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R7362		ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R7366		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7367		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7368,69		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R7370		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7371		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7376,77		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R7378		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R7379		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7380		ERJ3GEYG302	M.RESISTOR CH 1/16W 3K	1	
R7381		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7382		ERJ3GEYG302	M.RESISTOR CH 1/16W 3K	1	
R7383		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7384		ERJ3GEYG302	M.RESISTOR CH 1/16W 3K	1	
R7601		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R7603		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7604		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7605,06		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	2	
R7607		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R7608		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7609		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7610		ERDS2TJ332	C.RESISTOR 1/4W 3.3K	1	
R7617		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7657		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7671,72		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R7673		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R7674		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R7675		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7676		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7677		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7678		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R7679		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7680		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7681,82		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R7683		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R7684		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R7690		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7702		ERJ6GEYJ512	M.RESISTOR CH 1/10W 5.1K	1	
R7703		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7704		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7706		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7724		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
SW3001		VSS0398	SWITCH	1	
T0703		EQV5EC071A	TRANSFORMER	1	
T0704		EQV5EC072A	TRANSFORMER	1	
T1101		ETE28K94AY	TRANSFORMER	1	<!>
VR301		EVMEASA00B14	V.RESISTOR	1	
VR302		EVMEASA00B53	V.RESISTOR	1	
VR303		EVMEASA00B24	V.RESISTOR	1	
VR0701		EVNCBAA00B24	V.RESISTOR	1	
VR2001		EVNCYAA03B54	V.RESISTOR	1	
VR3001,02		EVNCYAA03B23	V.RESISTOR	2	
VR3012,13		EVNCYAA03B52	V.RESISTOR	2	
VR4501		EVMECSA00B53	V.RESISTOR	1	
VR4502		EVMEASA00BY4	V.RESISTOR	1	
VR4507		EVMEASA00BY4	V.RESISTOR	1	
VR4509		EVMECSA00BY3	V.RESISTOR	1	
VR4550		EVMECSA00B14	V.RESISTOR	1	
VR4551,52		EVMEASA00B55	V.RESISTOR	2	
X301		VSX0162	CRYSTAL OSCILLATOR	1	
X0703		EFCT5R5MW5	CRYSTAL OSCILLATOR	1	
X0704		VLF1035	CRYSTAL OSCILLATOR	1	
X6001		VSX0609	CRYSTAL OSCILLATOR	1	
X7302		VSX0683	CRYSTAL OSCILLATOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
X7303		EF0GC4004A4	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMD2029	REEL GUIDE	1	
		VSC4141	SW SHIELD COVER	1	
		VWJ0875	FLAT CARD CABLE	1	P3002-P501
		VWJ32C9160BB	FLAT CARD CABLE	1	P6001-P7501
		VSC4196	SHIELD COVER	1	
		VMC0811	SPRING	1	
		EYF52BC	FUSE HOLDER	2	<!>
		ENG47209N	TUNER	1	<!>
		VSC3553	SHIELD COVER (MAIN)	1	FOR NICAM DECORDER
		VSC3555	SHIELD COVER (BOTTOM)	1	FOR NICAM DECORDER
		VMP4471	TV DEMODULATOR ANGLE	1	FOR TV DEMODU.
		VMD1926	SENSOR LED HOLDER	1	FOR D6001
		VMD1927	PHOTO TR. HOLDER	1	FOR Q6002
	■	VEP06977H	MAIN C.B.A.		(RTL)<!>NV-HD600BD
C301		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C302		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C303		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C304		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C305		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C306		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C307		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C308		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C309		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C310-12		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C313		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C314		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C315		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C316		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C317		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C318,19		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C321		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C322		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C323		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C324		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C325		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C326		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C327		ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	1	
C328		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C329		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C330		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C331,32		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C333		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C334		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C335		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C336		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C340		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C341		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C342		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C343		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C344		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C345		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C347		ECUM1E154KBM	C.CAPACITOR CH 25V 0.15U	1	
C348		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C349		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C350		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C351		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C352		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C353		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C354		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C355		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C356		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C357		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C358,59		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C360		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C361		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C362		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C363		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C364		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C365		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C366		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C367-72		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C373		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C374		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C375		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C376		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C378		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C379		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C380		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C381		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C383		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C386		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C387		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C391		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C392		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C394		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C0701-03		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	3	
C0704		ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C0705		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C0706		ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C0707,08		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0709		ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C0710		ECUX1H470JPV	C.CAPACITOR CH 50V 47P	1	
C0711		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0712		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0714		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C0715		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C0716		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C0717		ECUX1H300JPV	C.CAPACITOR CH 50V 30P	1	
C0718		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C0719		ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C0720		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0722		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0723		ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C0724		ECUM1H563KBM	C.CAPACITOR CH 50V 0.056U	1	
C0726		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0728		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0729		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0730,31		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0733-37		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	5	
C0739,40		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0742		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C0764		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C881		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C882		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C883		ECEA1AK470	E.CAPACITOR 10V 47U	1	
C884		ECQV1H563JM	P.CAPACITOR 50V 0.47U	1	
C885		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C886		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C887		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C888		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C1001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1002		ECA1CM470	E.CAPACITOR 16V 47U	1	
C1003		ECA1CM101	E.CAPACITOR 16V 100U	1	
C1004		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1005		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C1006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1007		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C1008		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1009,10		ECEA0JKA101	E.CAPACITOR 6.3V 100U	2	
C1101,02		ECKMWS471MBH	C.CAPACITOR	2	<!>
C1103		ECKMWS102MEH	C.CAPACITOR	1	<!>
C1104		ECQU2A154MNB	P.CAPACITOR 250V 0.15U	1	<!>
C1105		ECQU2A683MN	P.CAPACITOR 250V 0.068U	1	<!>
C1106		ECEC2GG680	E.CAPACITOR 400V 68U	1	
C1107		ECKD2H103PU	C.CAPACITOR 500V 0.01U	1	
C1108		ECCD3A121KGE	C.CAPACITOR 1KV 120P	1	
C1109		ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C1110		ECA0GXLV331	E.CAPACITOR 4V 330U	1	
C1111		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1113		ECUM1H822KBN	C.CAPACITOR CH 50V 8200P	1	
C1131		EEUFA1E681	E.CAPACITOR 25V 680P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1132		ECEA1EU221	E.CAPACITOR 25V 220U	1	
C1133		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1134		EEUFA1A391B	E.CAPACITOR 10V 390P	1	
C1135		ECEA1AU331	E.CAPACITOR 10V 330U	1	
C1136		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1137		ECEA1JFE470	E.CAPACITOR 63V 47U	1	
C1138		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1139		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1140		ECA1VFQ560	E.CAPACITOR 35V 56U	1	
C1141		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1143		ECA0JFQ221	E.CAPACITOR 6.3V 220U	1	
C1144,45		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2013		ECQV1H334JM	P.CAPACITOR 50V 0.33U	1	
C2022		ECEA1EKS330	E.CAPACITOR 25V 33U	1	
C2023		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2024		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2025,26		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C2029,30		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C2031		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C2032		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C2033		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2034		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2035		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C2037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2038		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2039		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C2040		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2047		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2049-51		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	3	
C2052		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2053-55		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	3	
C3001		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3002,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3004		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3005		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3007		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C3008		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3009		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3010		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3012		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3015		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3016		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C3017,18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3019		ECUM1H620JCN	E.CAPACITOR CH 50V 62P	1	
C3021		ECA0JM471	E.CAPACITOR 6.3V 470U	1	
C3022		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3023		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3024		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3025		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3026		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3027		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3028		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3029		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3031		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3032		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3033		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3045		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3046		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C3047		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C4001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4005		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4008		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C4010		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4011,12		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	2	
C4013,14		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C4017		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4034		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C4035,36		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C4503		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4504		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4505		ECA1VM470	E.CAPACITOR 35V 47P	1	
C4506		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4507		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4508		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4509		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4510		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4511		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4512		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4513		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4514		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4515		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4517		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4518		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4521		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4522		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4524		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4528		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4530		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C4533		ECEA1AU330	E.CAPACITOR 10V 33U	1	
C4537		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4538		ECEA1HUR47	E.CAPACITOR 50V 0.47U	1	
C4539		ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C4541		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4545		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4551		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4556		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4558		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C4559		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4560		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4561		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4562		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4563		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4564		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4565		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4567		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4568		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4572		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4576		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4583		ECEA1AU330	E.CAPACITOR 10V 33U	1	
C4585,86		ECEA1AU101	E.CAPACITOR 10V 100U	2	
C4591		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4592		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4593		ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C4594,95		ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C4596		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4597		ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4604		ECUM1H182JN	C.CAPACITOR CH 50V 1800P	1	
C4606		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C4611		ECQB1H562JZ	P.CAPACITOR 50V 5600P	1	
C4616		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4617		ECEA1OM22	E.CAPACITOR 10V 22U	1	
C4618		ECQB1H822JZ	P.CAPACITOR 50V 8200P	1	
C4621		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C4629		ECQB1H123JZ	P.CAPACITOR 50V 0.012U	1	
C4636		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4638		ECQB1H272JZ	P.CAPACITOR 50V 2700P	1	
C4652,53		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C6001		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6003		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C6006		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6007		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C6008		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C6010		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6011		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6013		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C6015,16		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	2	
C6029		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6030		ECUM1H181KBN	E.CAPACITOR CH 50V 180P	1	
C7301,02		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C7303		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C7304		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7305		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C7306		ECUX1H391JCV	C.CAPACITOR CH 50V 390P	1	
C7307-12		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	6	
C7313		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C7314		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7315		ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C7317		ECUX1H090DCV	C.CAPACITOR CH 50V 90P	1	
C7319		ECRHA020D54	V.CAPACITOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7320		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7321		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7322		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C7323,24		ECUX1H391JCV	C.CAPACITOR CH 50V 390P	2	
C7325,26		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C7327		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C7328		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C7329,30		ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C7331		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7332,33		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C7334		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7335		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C7336		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7338		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C7339		ECUM1H182KBM	C.CAPACITOR CH 50V 1800P	1	
C7340		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C7341		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7342		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C7343		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C7344		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C7345		ECUM1H182KBM	C.CAPACITOR CH 50V 1800P	1	
C7346		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C7347		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7348		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C7350		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C7351		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C7352		ECUM1H182KBM	C.CAPACITOR CH 50V 1800P	1	
C7353		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C7354		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7355		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C7357		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C7358		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C7359		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C7365,66		ECEA1HKA010	E.CAPACITOR 50V 1U	2	
C7367		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7369		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7370		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C7371,72		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C7374,75		ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C7601		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C7603		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C7604		ECUM1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C7605		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7606		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7610		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7611		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7612		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7613		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7614		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7615		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7616		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7617		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7618		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7620		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7621,22		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7623		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7632		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7633		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7635		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7661		ECUM1H104ZFM	C.CAPACITOR CH 50V 0.1U	1	
C7662		ECUM1H683ZFM	C.CAPACITOR CH 50V 0.068U	1	
C7663		ECUM1H823ZFM	C.CAPACITOR CH 50V 0.082U	1	
C7664		ECUM1H273KBM	C.CAPACITOR CH 50V 0.027U	1	
C7665,66		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7668		ECUM1H103ZFM	C.CAPACITOR CH 50V 0.01U	1	
C7669		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7671		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7677		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7678		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7701		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7702		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7703		ECUM1H300JCN	C.CAPACITOR CH 50V 30P	1	
C7704		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C7705		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C7706,07		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7708		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C7709		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C7710		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C7711		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C7714		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C7716		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7717		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7719		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C7726		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
D301		1SS283	DIODE	1	
D304		1SS254	DIODE	1	
D305		MA723VT	DIODE	1	
D307-10		1SS254	DIODE	4	
D312		1SS254	DIODE	1	
D314-16		1SS254	DIODE	3	
D0701		MA80WA	DIODE	1	
D0702		MA80WK	DIODE	1	
D0703		MA77		1	
D0709		MA77		1	
D1001		MA4120-M	DIODE	1	
D1002		1SS254	DIODE	1	
D1004		MA4051-L	DIODE	1	
D1005,06		1SS254	DIODE	2	
D1102		S1WBA60BS	DIODE	1	<!>
D1103		AP01C	DIODE	1	
D1104		MA178	DIODE	1	
D1105		MA700	DIODE	1	
D1106		MA4200H	DIODE	1	
D1107		1SS254	DIODE	1	
D1121		RN2ZLF-C4	DIODE	1	
D1122		21DQ04FC4	DIODE	1	
D1123		ERA22-02	DIODE	1	
D1124		MA185	DIODE	1	
D1125		11EQS04	DIODE	1	
D1126		MA4047M	DIODE	1	
D2001		1SS355	DIODE	1	
D2003,04		1SS254	DIODE	2	
D2007		1SS355	DIODE	1	
D3007		1SS355	DIODE	1	
D3010		1SS355	DIODE	1	
D4001		MA151WK	DIODE	1	
D4003		1SS254	DIODE	1	
D4004		MA700A	DIODE	1	
D4005		1SS254	DIODE	1	
D4501-04		MA141K	DIODE	4	
D6001		LN59L.VT	LED	1	
D6002		1SS254	DIODE	1	
D6003		1SS355	DIODE	1	
D6007		MA4075-L	DIODE	1	
D7301		MA3082-L	DIODE	1	
D7302		MA151K	DIODE	1	
D7303		MA151WK	DIODE	1	
D7304		MA717	DIODE	1	
D7306		MA151K	DIODE	1	
D7601		1SS254	DIODE	1	
D7604		1SS355	DIODE	1	
D7703		SVC251SPA	DIODE	1	
D7704		1SS254	DIODE	1	
F1101		XBA2C16TB0	FUSE	1	<!>
FL881		VLF0143	FILTER	1	
FL7301,02		VLF0633	FILTER	2	
IC301		TL8849P	IC	1	
IC302		AN3553NFBP	IC	1	
IC0701		LA7576	IC	1	
IC0702		LA7975	IC	1	
IC881		BA7025L	IC	1	
IC1001		HA17431PA	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC1101		STRM6559LF	IC	1	<!>
IC2001		XRA6887-V3	IC	1	
IC2004		LM358PS	IC	1	
IC3001		MM1111XFF	IC	1	
IC4501		XLH7773AKS	IC	1	
IC4601		BA7755AF	IC	1	
IC6001		MN67434VRSZ	IC	1	
IC6002,03		ON1387	PHOTO INTERRUPTER	2	
IC7301		MSP3410-15	IC	1	
IC7302		PST7043	IC	1	
IC7303		M5238FP	IC	1	
IC7304		HA17431PA	IC	1	
IC7305		MN155402VZBZ	IC	1	
IC7306		PST7043	IC	1	
IC7651		AN5043	IC	1	
IC7653		UPD4066BG	IC	1	
IC7701		UPD6464CS501	IC	1	
JK3001		VJJ0392	I/O JACK	1	
K4		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K7		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K303		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K307		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K314-16		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	3	
K0701		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0703		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K3004		ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	1	
K3005		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4001		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4005		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4011		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4021		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4024		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7312		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K7315		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K7317		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K7607		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7610		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7621		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7701		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L301		VLQ0599J470	COIL 47UH	1	
L302		VLQ0599J100	COIL 10UH	1	
L303		VLQ0599J270	COIL 27UH	1	
L304		VLQ0599J100	COIL 10UH	1	
L305		VLQ0599J680	COIL 68UH	1	
L306,07		VLQ0599J390	COIL 39UH	2	
L308		VLQ0599J150	COIL 15UH	1	
L309		VLQ0599J390	COIL 39UH	1	
L310		VLQ0599J121	COIL 120UH	1	
L311		VLQ0599J101	COIL 100UH	1	
L312		VLQ0599J8R2	COIL H	1	
L313		VLQ0599J680	COIL 68UH	1	
L314		VLQ0599J220	COIL 22UH	1	
L315		VLQ0599J101	COIL 100UH	1	
L316		VLQ0599J470	COIL 47UH	1	
L317		VLQ0599J101	COIL 100UH	1	
L318		VLQ0599J680	COIL 68UH	1	
L319		VLQ0599J270	COIL 27UH	1	
L322		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L323-33		VLP0145	COIL	11	
L0701		VLQ0163JR39	COIL H	1	
L0703		VLQ0163J3R9	COIL 3.9UH	1	
L0704		VLQ0163J1R0	COIL 1UH	1	
L0706		VLQEL05T5R6K	COIL H	1	
L0708-12		ELJFA151KB	COIL	5	
L0714		ELJFA151KB	COIL	1	
L0723		ELJFA151KB	COIL	1	
L881		ELESE101KA	COIL 100UH	1	
L1101		ELF18D290A	COIL 29UH	1	<!>
L1102		ELF18D221F	COIL 220UH	1	<!>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L1103,04		VLP0083	COIL	2	
L1105		VLP0085	COIL	1	
L1121		VLQ0611K220	COIL 22UH	1	
L1122		ELEIN220KA	COIL 22UH	1	
L1123,24		ELESE101KA	COIL 100UH	2	
L1125		VLP0085	COIL	1	
L1126		ERDS2TYOT	COIL H	1	
L1127		VLP0074	COIL	1	
L3001		VLQ0599J3R3	COIL 3.3UH	1	
L3002		VLQ0599J680	COIL 68UH	1	
L3003		VLQ0599J6R8	COIL 6.8UH	1	
L3004		VLQ0599J120	COIL 120UH	1	
L3005		VLQ0599J680	COIL 68UH	1	
L3006		VLQ0599J101	COIL 100UH	1	
L3007		VLQ0599J680	COIL 68UH	1	
L3008		VLQ0599J270	COIL 27UH	1	
L3009		VLQ0599J680	COIL 68UH	1	
L4501,02		ELESE101KA	COIL 100UH	2	
L4601		VLQEL07F153J	COIL	1	
L7301		ELEXH100JBV	COIL 10UH	1	
L7302		VLP0150	INDUCTOR	1	
L7601		VLQ0599J680	COIL 68UH	1	
L7602		VLQ0599J1R0	COIL 1UH	1	
L7603		VLQ0599J680	COIL 68UH	1	
L7605,06		VLQ0599J680	COIL 68UH	2	
L7609		VLQ0599J680	COIL 68UH	1	
L7610		VLQ0599J1R0	COIL 1UH	1	
L7701,02		VLQ0599J330	COIL 33UH	2	
L7703		VLQ0599J4R7	COIL H	1	
L7705		VLQ0599J100	COIL 10UH	1	
L7706		VLQ0599J330	COIL 33UH	1	
P1101		VJS3306	AC INLET	1	<!>
P2001		VJS3316A002	CONNECTOR (FEMALE) 2P	1	
P3002		VJS3537A020G	CONNECTOR (FEMALE) 20P	1	
P6001		VJS3537A032G	CONNECTOR (FEMALE) 32P	1	
P6004		VJS3820	CONNECTOR	1	
PK0701		VJR0816E012W	CONNECTOR (MALE) 12P	1	
PK881		VJR0456	PACK PIN	1	
PK4001-03		VJR0757B018T	CONNECTOR (MALE) 18P	3	
PK7301		VJR0777B009W	CONNECTOR 9P	1	
PK7302		VJR0777B008W	CONNECTOR 8P	1	
PP0701		VJP3589A004B	CONNECTOR (MALE) 4P	1	
PP2001		VJP3042A018W	CONNECTOR (MALE) 18P	1	
PP2002		VJP3042A011W	CONNECTOR (MALE) 11P	1	
PP3007		VJP3043A012W	CONNECTOR (MALE) 12P	1	
PP6005		VJP3042A003W	CONNECTOR (MALE) 3P	1	
PS301		VJR0776B009W	CONNECTOR (MALE) 9P	1	
PS302		VJR0776B013W	CONNECTOR (MALE) 13P	1	
PS303		VJR0776B006W	CONNECTOR (MALE) 6P	1	
PS7701		VJS3043B012W	CONNECTOR (FEMALE) 12P	1	
Q301,02		MSD601	TRANSISTOR	2	
Q303,04		MSC2295	TRANSISTOR	2	
Q305		MSB709	TRANSISTOR	1	
Q0701		MSD601-S	TRANSISTOR	1	
Q0703,04		2SD1820	TRANSISTOR	2	
Q1001		2SD2544OPQA	TRANSISTOR	1	
Q1002,03		2SD1996-S	TRANSISTOR	2	
Q1101		PS2561L2-1WL	TRANSISTOR	1	<!>
Q3001		XN4501	TRANSISTOR-RESISTOR	1	
Q3002		MSB710	TRANSISTOR	1	
Q3003		2SB709A	TRANSISTOR	1	
Q3004		MSD601	TRANSISTOR	1	
Q3005		MSC2295	TRANSISTOR	1	
Q3006		MSB709	TRANSISTOR	1	
Q3007		MSC2295	TRANSISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q3010		2SB709A	TRANSISTOR	1	
Q4501		2SD1991A-R	TRANSISTOR	1	
Q4551		2SB1320A-R	TRANSISTOR	1	
Q4552		2SD1819A	TRANSISTOR	1	
Q4601		2SD1819A	TRANSISTOR	1	
Q6001		MSB709	TRANSISTOR	1	
Q6002		PN205L-NC.VT	PHOTO TRANSISTOR	1	
Q7301,02		2SD1996	TRANSISTOR	2	
Q7303,04		2SC2404	TRANSISTOR	2	
Q7305		MSD601-S	TRANSISTOR	1	
Q7307-10		2SB709A	TRANSISTOR	4	
Q7311-13		MSD1328-S	TRANSISTOR	3	
Q7602		MSD601-S	TRANSISTOR	1	
Q7701		MSB709	TRANSISTOR	1	
Q7705		MSC2295	TRANSISTOR	1	
QR302		MUN2212	TRANSISTOR-RESISTOR	1	
QR303		MUN2213	TRANSISTOR-RESISTOR	1	
QR306		MUN2213	TRANSISTOR-RESISTOR	1	
QR308		IMH5	TRANSISTOR-RESISTOR	1	
QR310		MUN2213	TRANSISTOR-RESISTOR	1	
QR311		MUN2111	TRANSISTOR-RESISTOR	1	
QR312		MUN2113	TRANSISTOR-RESISTOR	1	
QR314		MUN2213	TRANSISTOR-RESISTOR	1	
QR316		MUN2213	TRANSISTOR-RESISTOR	1	
QR0701		UN5213	TRANSISTOR-RESISTOR	1	
QR0702		XN4213	TRANSISTOR-RESISTOR	1	
QR0706,07		UN5213	TRANSISTOR-RESISTOR	2	
QR0715		UN5213	TRANSISTOR-RESISTOR	1	
QR2001		MUN2113	TRANSISTOR-RESISTOR	1	
QR2002		UN2114	TRANSISTOR-RESISTOR	1	
QR2003		FMG8	TRANSISTOR-RESISTOR	1	
QR2004		MUN2112	TRANSISTOR-RESISTOR	1	
QR2005-07		IMD8	TRANSISTOR-RESISTOR	3	
QR2008		XN1213	TRANSISTOR-TRANSISTOR	1	
QR2014		MUN2213	TRANSISTOR-RESISTOR	1	
QR3001		MUN2111	TRANSISTOR-RESISTOR	1	
QR3002,03		DTC363EK	TRANSISTOR-RESISTOR	2	
QR3005		MUN2213	TRANSISTOR-RESISTOR	1	
QR3006		MUN2111	TRANSISTOR-RESISTOR	1	
QR3007		MUN2211	TRANSISTOR-RESISTOR	1	
QR3008		XN4213	TRANSISTOR-RESISTOR	1	
QR4001		MUN2212	TRANSISTOR-RESISTOR	1	
QR4002,03		MUN2213	TRANSISTOR-RESISTOR	2	
QR4508,09		UN5113	TRANSISTOR-RESISTOR	2	
QR4510		UN5212	TRANSISTOR-RESISTOR	1	
QR4602		UN5111	TRANSISTOR-RESISTOR	1	
QR4603		UN5213	TRANSISTOR-RESISTOR	1	
QR6001		XN1211	TRANSISTOR-RESISTOR	1	
QR6003		MUN2211	TRANSISTOR-RESISTOR	1	
QR7301		MUN2213	TRANSISTOR-RESISTOR	1	
QR7302		MUN2112	TRANSISTOR-RESISTOR	1	
QR7601		MUN2213	TRANSISTOR-RESISTOR	1	
QR7604,05		MUN2213	TRANSISTOR-RESISTOR	2	
QR7606		MUN2211	TRANSISTOR-RESISTOR	1	
R301,02		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R303		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R304		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R305		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R306		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R307		ERJ6GMYK225	M.RESISTOR CH 1/10W 2.2M	1	
R308		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R310		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R311		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R312		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R313,14		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R315		ERJ6GMYJ684	M.RESISTOR CH 1/10W 680K	1	
R317		ERJ6GMYG221	M.RESISTOR CH 1/10W 220	1	
R318		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R319		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R320		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R321		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R322		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R324		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R325		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R326		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R327		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R328		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R329		ERJ6GMYG471	M.RESISTOR CH 1/10W 470	1	
R330		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R331		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R332		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R334		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R336		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R337		ERJ6GMYG241	M.RESISTOR CH 1/10W 240	1	
R338		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R339		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R340		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R341		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R342,43		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R344		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R345		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R346		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R347,48		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R349		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R350		ERJ6GMYK225	M.RESISTOR CH 1/10W 2.2M	1	
R351		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R353		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R358		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R359		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R360		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R361		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R362		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R363		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R364		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R367		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R369		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R371		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R372		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R373		ERJ6GMYJ334	M.RESISTOR CH 1/10W 330K	1	
R0701		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R0702		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0703		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R0704		ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R0705		ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R0706,07		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R0708		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R0709		ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R0710		ERJ6GEYJ394	M.RESISTOR CH 1/10W 390K	1	
R0713		ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R0714		ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R0715		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R0716		VRE0040E151	M.RESISTOR CH 1/10W 150	1	
R0717		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R0718		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0719		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R0720		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0722		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R0723		ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R0724		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R0725		ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R0726		ERJ3GEYG821	M.RESISTOR CH 1/16W 820	1	
R0727		ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R0732		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R0733		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R0734		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R0735		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0770,71		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R0772		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R0782		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R0783		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R0784		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R0785		ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R0786		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R0787-89		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	3	
R0790		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R0792		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R0793,94		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R0795,96		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R0797		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0798		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R0799		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R881		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R882		ERJ6GMYJ390	M.RESISTOR CH 1/10W 39	1	
R883		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R884		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R885		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R886		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1001		ERDS1TJ472	C.RESISTOR 1/2W 4.7K	1	
R1002		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R1003		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R1004		ERJ6GMYJ303	M.RESISTOR CH 1/10W 30K	1	
R1005		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R1006		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R1101		ERC12AGM334	S.RESISTOR 1/2W 330K	1	<!>
R1102		ERG1SJ683	M.RESISTOR 1W 68K	1	
R1103,04		ERDS2TJ224	C.RESISTOR 1/4W 220K	2	
R1105		ERJ8GEYK395	M.RESISTOR CH 1/8W 3.9M	1	
R1106		ERJ8GEYK475	M.RESISTOR CH 1/8W 4.7M	1	
R1107		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R1108		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R1109		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R1110		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1111,12		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	2	
R1113		ERX1SJR82	M.RESISTOR 1W 0.82	1	
R1114		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R1117		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R1121		ERJ6GMYJ220	M.RESISTOR CH 1/10W 22	1	
R1122		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2001		ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R2002		ERJ6GMYG913	M.RESISTOR CH 1/10W 91K	1	
R2003		ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1	
R2004		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R2005,06		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R2009		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2012		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2013-15		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	3	
R2017,18		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	2	
R2019		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R2020		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2021		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R2023		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2025		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2027,28		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R2029,30		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R2031		ERJ6GMYJ244	M.RESISTOR CH 1/10W 240K	1	
R2035		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2037		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2038		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R2039		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2040		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2041		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2042,43		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2044		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2045		ERJ6GMYJ753	M.RESISTOR CH 1/10W 75K	1	
R2046		ERJ6GMYG273	M.RESISTOR CH 1/10W 27K	1	
R2047		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R2048		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R2049		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2050		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R2051		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2052		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2053,54		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R2059		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2060,61		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	2	
R2062		ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1	
R2063,64		ERDS2FJ6R8	C.RESISTOR 1/4W 6.8	2	
R3001,02		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R3003		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3004		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3005		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3006		ERDS2TJ471	C.RESISTOR 1/4W 470	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3007		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3008,09		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R3010		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R3012		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R3015		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3017		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3018		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3019,20		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	2	
R3021		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R3022		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3023,24		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R3025		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3026		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3028		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3030		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3033		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3034		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3035		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R3036		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3037		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3038,39		ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R3040,41		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	2	
R3042		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R4001		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4002		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4014		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4018		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4021		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4022		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R4023		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R4024		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4025		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R4043		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4046		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R4055		ERG2SJ821	M.RESISTOR 2W 820	1	
R4056		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4058		ERG2SJ101	M.RESISTOR 2W 100	1	
R4501,02		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4503		ERJ3GEYG223	M.RESISTOR CH 1/16W 22K	1	
R4506,07		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4508		ERJ3GEYG224	M.RESISTOR CH 1/16W 220K	1	
R4509		VRE0071E622	M.RESISTOR CH 1/10W 6.2K	1	
R4511		ERJ3GEYG273	M.RESISTOR CH 1/16W 27K	1	
R4512		VRE0071E163	M.RESISTOR CH 1/10W 16K	1	
R4513		ERJ3GEYG103	M.RESISTOR CH 1/16W 10K	1	
R4514		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4518,19		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4522		ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R4527		VRE0071E333	M.RESISTOR 33K	1	
R4528		VRE0071E153	M.RESISTOR 15K	1	
R4529		ERJ3GEYG562	M.RESISTOR CH 1/16W 5.6K	1	
R4530		ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4534		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4535		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4539		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4541		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4542		ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4543		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4551,52		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	2	
R4553,54		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4558		ERJ3GEYG224	M.RESISTOR CH 1/16W 220K	1	
R4561		ERJ3GEYG273	M.RESISTOR CH 1/16W 27K	1	
R4562		VRE0034E10C	M.RESISTOR CH 1/10W	1	
R4563		ERJ3GEYG272	M.RESISTOR CH 1/16W 2.7K	1	
R4568,69		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4572		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4573		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4577		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4578		VRE0071E473	M.RESISTOR CH 1/10W 47K	1	
R4581		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4583		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4584		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4585,86		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4587,88		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4591		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4592		ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4593		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4594		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4596		ERJ3GEYG473	M.RESISTOR CH 1/16W 47K	1	
R4597		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4598,99		ERJ3GEYG104	M.RESISTOR CH 1/16W 100K	2	
R4603		ERJ3GEYG183	M.RESISTOR CH 1/16W 18K	1	
R4606		VRE0071E562	M.RESISTOR 5.6K	1	
R4610		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4611		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4612		VRE0071E331	M.RESISTOR CH 1/10W 330	1	
R4613		ERJ3GEYG394	M.RESISTOR CH 1/16W 390K	1	
R4615		VRE0071E133	M.RESISTOR CH 1/10W 13K	1	
R4616		ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4649		ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4651		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R4653		ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4654		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4655		ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4656		ERJ3GEYG243	M.RESISTOR CH 1/16W 24K	1	
R4657		ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4666		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R4670		ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R4671		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6001		ERJ6GMYJ201	M.RESISTOR CH 1/10W 200	1	
R6002		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R6003		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6004		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6005-07		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	3	
R6008		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6009-11		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R6013		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R6014,15		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	2	
R6016		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6017		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6018		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6020		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R6022		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6023		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6024-29		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	6	
R6030		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R6031		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6032,33		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6034,35		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6037		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R6039,40		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R7301		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7302		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R7303		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R7304		ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R7305,06		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	2	
R7307		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7308		ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R7309,10		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	2	
R7311		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7312		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7313,14		ERJ3GEYG272	M.RESISTOR CH 1/16W 2.7K	2	
R7315		ERJ3GEYJ114	M.RESISTOR CH 1/16W 110K	1	
R7316		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R7317		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R7320		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R7321-23		ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	3	
R7324		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7325		ERJ3GEYG122	M.RESISTOR CH 1/16W 1.2K	1	
R7326		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R7327-29		ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	3	
R7330		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7332		ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R7333		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R7334-36		ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	3	
R7337		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7339		ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R7341-43		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	3	
R7344		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7346		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7347		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7348		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R7349,50		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R7351		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R7352-56		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R7357		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R7362		ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R7363		ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R7364		ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R7365		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R7366		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7367		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7368,69		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R7370		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7371		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7376,77		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R7378		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R7379		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7380		ERJ3GEYG302	M.RESISTOR CH 1/16W 3K	1	
R7381		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7382		ERJ3GEYG302	M.RESISTOR CH 1/16W 3K	1	
R7383		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7384		ERJ3GEYG302	M.RESISTOR CH 1/16W 3K	1	
R7601		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R7603		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7604		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7605,06		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	2	
R7607		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R7608		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7617		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7657		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7671,72		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R7673		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R7674		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R7675		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7676		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7677		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7678		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R7679		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7680		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7681,82		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R7683		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R7684		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R7690		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7702		ERJ6GEYJ512	M.RESISTOR CH 1/10W 5.1K	1	
R7703		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7704		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7706		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7713,14		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R7724		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
SW3001		VSS0398	SWITCH	1	
SW7601		VSS0106	SWITCH	1	
T0703		EQV5EC071A	TRANSFORMER	1	
T0704		EQV5EC073A	TRANSFORMER	1	
T0711		EQS5EC032A	TRANSFORMER	1	
T881		ELM7Q207A	COIL	1	
T1101		ETE28K94AY	TRANSFORMER	1	<!>
VR301		EVMEASA00B14	V.RESISTOR	1	
VR302		EVMEASA00B53	V.RESISTOR	1	
VR303		EVMEASA00B24	V.RESISTOR	1	
VR0701		EVNCBAA00B24	V.RESISTOR	1	
VR2001		EVNCYAA03B54	V.RESISTOR	1	
VR3001,02		EVNCYAA03B23	V.RESISTOR	2	
VR3012,13		EVNCYAA03B52	V.RESISTOR	2	
VR4501		EVMECSA00B53	V.RESISTOR	1	
VR4502		EVMEASA00BY4	V.RESISTOR	1	
VR4507		EVMEASA00BY4	V.RESISTOR	1	
VR4509		EVMECSA00BY3	V.RESISTOR	1	
VR4550		EVMECSA00B14	V.RESISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR4551,52		EVMEASA00B55	V.RESISTOR	2	
X301		VSX0162	CRYSTAL OSCILLATOR	1	
X302		VSX0160	CRYSTAL OSCILLATOR	1	
X0702		EFCS6R0MS5	CRYSTAL OSCILLATOR	1	
X0703		EFCS3F02W3B	CRYSTAL OSCILLATOR	1	
X0704		EFCH38MGT3	CRYSTAL OSCILLATOR	1	
X0706		EFCT4474BFB	CRYSTAL OSCILLATOR	1	
X0717		EFCS4R5MS5	CRYSTAL OSCILLATOR	1	
X0719		EFCS4504BFB	CRYSTAL OSCILLATOR	1	
X0721		EFOA512KT4BE	CRYSTAL OSCILLATOR	1	
X6001		VSX0609	CRYSTAL OSCILLATOR	1	
X7302		VSX0683	CRYSTAL OSCILLATOR	1	
X7303		EFOGC4004A4	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMD2029	REEL GUIDE	1	
		VSC4141	SW SHIELD COVER	1	
		VWJ0875	FLAT CARD CABLE	1	P3002-P501
		VWJ32C9160BB	FLAT CARD CABLE	1	P6001-P7501
		VSC4196	SHIELD COVER	1	
		VMC0811	SPRING	1	
		EYF52BC	FUSE HOLDER	2	<!>
		ENG47212N	TUNER	1	<!>
		VSC3553	SHIELD COVER (MAIN)	1	FOR NICAM DECORDER
		VSC3555	SHIELD COVER (BOTTOM)	1	FOR NICAM DECORDER
		VMP4471	TV DEMODULATOR ANGLE	1	FOR TV DEMODU.
		VMD1926	SENSOR LED HOLDER	1	FOR D6001
		VMD1927	PHOTO TR. HOLDER	1	FOR Q6002
	■	VEP04469G	MOTOR DRIVE C.B.A.		(RTL)NV-HD600A/BD
C2501,02		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	2	
C2503		ECA1EM470	E.CAPACITOR 25V 47U	1	
C2504		ECEA1HKNR22	E.CAPACITOR 50V 0.22	1	
C2505		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2506		ECA1EM470	E.CAPACITOR 25V 47U	1	
C2507,08		ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	2	
C2509		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2510		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2511		ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	1	
C2512		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2513		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2514-16		ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	3	
C2517		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C2518		ECUM1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C2519		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C2520		ECUM1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C2521		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2523		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C2525		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C2540		ECEA1HKAR47	E.CAPACITOR 50V 0.47	1	
C4712		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4713		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C4714		ECQP1332JZ	P.CAPACITOR 100V 3300P	1	
C4715		ECCD2H181J	C.CAPACITOR 500V 180P	1	
C4716		ECUM1H153KBN	C.CAPACITOR CH 50V 0.015U	1	
C4732		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
D2501,02		MA185	DIODE	2	
D4702		MA151K	DIODE	1	
IC2501		BA6871S	IC	1	
K4708		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4710		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L4702		ELESE471KA	COIL	1	
L4705,06		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
P2003		VJP3502	CONNECTOR (MALE)	1	
P2501		VJS3537A015G	CONNECTOR (FEMALE) 15P	1	
P2502		VJP1232T	CONNECTOR (MALE) 5P	1	
P4002		VJS2329	CONNECTOR (FEMALE)	1	
P4003		VJP1230T	CONNECTOR (MALE) 3P	1	
P6003		VJP1242T	CONNECTOR (MALE) 2P	1	
PS2501		VJS3042B018W	CONNECTOR (FEMALE) 18P	1	
PS4701		VJS3042B011W	CONNECTOR (FEMALE) 11P	1	
Q4701		2SD602A-R	TRANSISTOR	1	
Q4703		2SB1320A-R	TRANSISTOR	1	
QR4703		MUN2214	TRANSISTOR-RESISTOR	1	
R2501		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R2502		ERJ6GMYG681	M.RESISTOR CH 1/10W 680	1	
R2503,04		ERDS2TJ560	C.RESISTOR 1/4W 56	2	
R2505		ERDS1TJ561	C.RESISTOR 1/2W 560	1	
R2506		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2507		ERJ6GMYG432	M.RESISTOR CH 1/10W 4.3K	1	
R2508		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R2509		ERJ6GMYJ684	M.RESISTOR CH 1/10W 680K	1	
R2510		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R2511		ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R2512		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2513,14		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R2515		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2516		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2517		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2518		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2519		ERDS2TJ560	C.RESISTOR 1/4W 56	1	
R2520		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2521,22		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R2529		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R2530		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2531		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2532		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R2533		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2534		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4710		ERJ6GMYJ432	M.RESISTOR CH 1/10W 4.3K	1	
R4715		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4723		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4735		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
T4701		EIQ7QF014Q	TRANSFORMER	1	
VR2006		EVNDCAA03B15	V.RESISTOR	1	
VR2011		EVNDCAA03B15	V.RESISTOR	1	
VR4001		EVNDCAA03B15	V.RESISTOR	1	
			MISCELLANEOUS		
		VEE9091	WIRE CABLE	1	(P2003-POWER TR.)
		VEE9112	WIRE CABLE	1	(P4003-FE HEAD)
		VWJ0868	FLAT CARD CABLE	1	(P2501-CAPSTAN)
		VEE9144	WIRE CABLE	1	(P2502-CYLINDER)
	■	VEP04469H	MOTOR DRIVE C.B.A.		(RTL)NV-HD600EA
C2501,02		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2503		ECA1EM470	E.CAPACITOR 25V 47U	1	
C2504		ECEA1HKNR22	E.CAPACITOR 50V 0.22	1	
C2505		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2506		ECA1EM470	E.CAPACITOR 25V 47U	1	
C2507,08		ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	2	
C2509		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2510		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2511		ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	1	
C2512		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2513		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2514-16		ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	3	
C2517		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C2518		ECUM1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C2519		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C2520		ECUM1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C2521		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2523		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C2525		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C2540		ECEA1HKAR47	E.CAPACITOR 50V 0.47	1	
C4712		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4713		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C4714		ECQP1332JZ	P.CAPACITOR 100V 3300P	1	
C4715		ECCD2H181J	C.CAPACITOR 500V 180P	1	
C4716		ECUM1H153KBN	C.CAPACITOR CH 50V 0.015U	1	
C4732		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
D2501,02		MA185	DIODE	2	
D4702		MA151K	DIODE	1	
IC2501		BA6871S	IC	1	
K4708		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4710		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L4702		ELESE471KA	COIL	1	
L4705,06		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
P2003		VJP3502	CONNECTOR (MALE)	1	
P2501		VJS3537A015G	CONNECTOR (FEMALE) 15P	1	
P2502		VJP1232T	CONNECTOR (MALE) 5P	1	
P4002		VJS2329	CONNECTOR (FEMALE)	1	
P4003		VJP1230T	CONNECTOR (MALE) 3P	1	
PS2501		VJS3042B017W	CONNECTOR (FEMALE) 17P	1	
PS4701		VJS3042B011W	CONNECTOR (FEMALE) 11P	1	
Q4701		2SD602A-R	TRANSISTOR	1	
Q4703		2SB1320A-R	TRANSISTOR	1	
QR4703		MUN2214	TRANSISTOR-RESISTOR	1	
R2501		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R2502		ERJ6GMYG681	M.RESISTOR CH 1/10W 680	1	
R2503,04		ERDS2TJ560	C.RESISTOR 1/4W 56	2	
R2505		ERDS1TJ561	C.RESISTOR 1/2W 560	1	
R2506		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2507		ERJ6GMYG432	M.RESISTOR CH 1/10W 4.3K	1	
R2508		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R2509		ERJ6GMYJ684	M.RESISTOR CH 1/10W 680K	1	
R2510		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R2511		ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R2512		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2513,14		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R2515		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2516		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2517		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2518		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2519		ERDS2TJ560	C.RESISTOR 1/4W 56	1	
R2520		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2521,22		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R2529		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R2530		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2531		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2532		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R2533		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2534		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4710		ERJ6GMYJ432	M.RESISTOR CH 1/10W 4.3K	1	
R4715		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4723		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4735		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
T4701		EIQ7QF014Q	TRANSFORMER	1	
VR2006		EVNDCAA03B15	V.RESISTOR	1	
VR2011		EVNDCAA03B15	V.RESISTOR	1	
VR4001		EVNDCAA03B15	V.RESISTOR	1	
			MISCELLANEOUS		
		VEE9091	WIRE CABLE	1	(P2003-POWER TR.)
		VEE9112	WIRE CABLE	1	(P4003-FE HEAD)
		VWJ0868	FLAT CARD CABLE	1	(P2501-CAPSTAN)
		VEE9144	WIRE CABLE	1	(P2502-CYLINDER)
	■	VEP05330A	HEAD AMP C.B.A.		(RTL)
C501		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C502,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C504		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C505		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C506		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C507		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C508,09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C510,11		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C512,13		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C514,15		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C516-18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C519		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C521		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C523		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C524		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C527		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C528		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C529		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C530		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C532		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C541		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C542		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C551		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C552		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C553		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C554-57		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C558		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C559		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C560		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C561		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C562		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
D501		1SS254	DIODE	1	
D502,03		MA151WA	DIODE	2	
D551		MA151WA	DIODE	1	
D552		1SS254	DIODE	1	
IC501		AN3360SB	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
K501-04		VLP0145	COIL	4	
L501.02		ELEXH680JBV	COIL 68UH	2	
L505		ELEXH121JBV	COIL 120UH	1	
L506		ELEXH151JBV	COIL 150UH	1	
L507		ELEXH680JBV	COIL 68UH	1	
L551,52		ELEXH680JBV	COIL 68UH	2	
P501		VJS3537B020G	CONNECTOR (FEMALE) 20P	1	
P502		VJS2603	CONNECTOR (FEMALE)	1	
Q503		MSD601	TRANSISTOR	1	
QR501		MUN2213	TRANSISTOR-RESISTOR	1	
QR502		UN2221	TRANSISTOR-RESISTOR	1	
QR551		MUN2213	TRANSISTOR-RESISTOR	1	
R501		ERDS2TJ273	C.RESISTOR 1/4W 27K	1	
R503		VRE0034E102	M.RESISTOR CH 1/10W 1K	1	
R504		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R505		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R506		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R507		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R508-11		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	4	
R512,13		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	2	
R514		ERJ6GMYJ242	M.RESISTOR CH 1/10W 2.4K	1	
R515		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R516		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R517		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R518,19		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	2	
R526,27		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R528		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R529		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R530		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R532		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R533		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R549		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R551		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R552		VRE0034E160	M.RESISTOR CH 1/10W 16K	1	
R553,54		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R555		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R556		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
			MISCELLANEOUS		
		VSC3478	SHIELD COVER (MAIN)	1	
		VSC3714	SHIELD COVER (TOP)	1	
		VSC3715	SHIELD COVER (BOTTOM)	1	
	■	VEP07772J	TIMER C.B.A.		(RTL)NV-HD600A
C7501		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7502		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7503		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C7504,05		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7506		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C7507		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7508		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7509		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7510		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7511		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7512		ECRHA010A54R	V.CAPACITOR	1	
C7513		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C7514		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7515		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7516		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C7517		VCE0073	E.CAPACITOR	1	
C7518-25		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	8	
C7526		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7530		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
D7501,02		MA73	DIODE	2	
D7503,04		1SS254	DIODE	2	
D7505		MA73	DIODE	1	
D7506-08		1SS254	DIODE	3	
D7515		1SS254	DIODE	1	
D7528		1SS254	DIODE	1	
D7532		MA4220	DIODE	1	
D7533		1SS254	DIODE	1	
D7538-40		1SS254	DIODE	3	
D7541		LN81RCPH	LED	1	
D7542		1SS254	DIODE	1	
D7546		1SS254	DIODE	1	
DP7501		VSL0325	DISPLAY TUBE	1	
IC7501		M37507V4BU	IC	1	
IC7502		M6M80041P	IC	1	
IC7503		RPM675CBRX10	IR RECEIVER UNIT	1	
IC7504		PST7023	IC	1	
IC7505		S80743AL	IC	1	
K7509		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7514		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7516,17		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
P7501		VJS3537B032G	CONNECTOR (FEMALE) 32P	1	
Q7501		2SD1991A	TRANSISTOR	1	
QR7502		MUN2213	TRANSISTOR-RESISTOR	1	
QR7503		MUN2211	TRANSISTOR-RESISTOR	1	
R7501-03		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	3	
R7504		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7505		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7506-11		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	6	
R7513,14		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R7515		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R7518		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7519		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7520		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7521		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7524		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7534,35		ERJ6GMYJ132	M.RESISTOR CH 1/10W 1.3K	2	
R7536		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R7537		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7539		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7540		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R7542		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R7544		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7545		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R7546		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7549		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R7550		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7551,52		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R7554,55		ERDS2TJ221	C.RESISTOR 1/4W 220	2	
R7556		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
SW7502-04		EVQ11409K	SWITCH	3	
SW7506-10		EVQ11409K	SWITCH	5	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
SW7512-15		EVQ11409K	SWITCH	4	
SW7518		ESD172252	SWITCH	1	
X7501		VSX0608	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF1122	FIP HOLDER	1	
		VMD1047	LED SPACER	1	
		VMD2247	IR RECEIVER HOLDER	1	
	■	VEP07772P	TIMER C.B.A.		(RTL)NV-HD600EA
C7501		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7502		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7503		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C7504,05		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7506		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C7507		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7508		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7509		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7510		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7511		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7512		ECRHA010A54R	V.CAPACITOR	1	
C7513		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C7514		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7515		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7516		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C7517		VCE0073	E.CAPACITOR	1	
C7518-25		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	8	
C7526		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7527,28		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C7529		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C7530		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
D7501,02		MA73	DIODE	2	
D7503,04		1SS254	DIODE	2	
D7505		MA73	DIODE	1	
D7506-08		1SS254	DIODE	3	
D7515		1SS254	DIODE	1	
D7528		1SS254	DIODE	1	
D7532		MA4220	DIODE	1	
D7533		1SS254	DIODE	1	
D7538		1SS254	DIODE	1	
D7540		1SS254	DIODE	1	
D7541		LN81RCPH	LED	1	
D7542		1SS254	DIODE	1	
D7544-46		1SS254	DIODE	3	
DP7501		VSL0325	DISPLAY TUBE	1	
IC7501		M37507V4BU	IC	1	
IC7502		M6M80041P	IC	1	
IC7503		RPM675CBRX10	IR RECEIVER UNIT	1	
IC7504		PST7023	IC	1	
IC7505		S80743AL	IC	1	
K7509		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7514		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
P7501		VJS3537B032G	CONNECTOR (FEMALE) 32P	1	
Q7501		2SD1991A	TRANSISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR7502		MUN2213	TRANSISTOR-RESISTOR	1	
QR7503		MUN2211	TRANSISTOR-RESISTOR	1	
R7501-03		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	3	
R7504		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7505		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7506-11		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	6	
R7513,14		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R7515		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R7518		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7519		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7520		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7521		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7524		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7534,35		ERJ6GMYJ132	M.RESISTOR CH 1/10W 1.3K	2	
R7536		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R7537		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7539		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7540		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R7542		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R7544		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7545		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R7546		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7549		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7550		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7551,52		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R7554,55		ERDS2TJ221	C.RESISTOR 1/4W 220	2	
R7556		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
SW7502-04		EVQ11409K	SWITCH	3	
SW7506-10		EVQ11409K	SWITCH	5	
SW7512-15		EVQ11409K	SWITCH	4	
X7501		VSX0608	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF1122	FIP HOLDER	1	
		VMD1047	LED SPACER	1	
		VMD2247	IR RECEIVER HOLDER	1	
	■	VEP07772Q	TIMER C.B.A.		(RTL)NV-HD600BD
C7501		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7502		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7503		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C7504,05		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7506		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C7507		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7508		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7509		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7510		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7511		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7512		ECRHA010A54R	V.CAPACITOR	1	
C7513		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C7514		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7515		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7516		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C7517		VCE0073	E.CAPACITOR	1	
C7518-25		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	8	
C7526		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7530		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
D7501,02		MA73	DIODE	2	
D7503,04		1SS254	DIODE	2	
D7505		MA73	DIODE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D7506-08		1SS254	DIODE	3	
D7512-15		1SS254	DIODE	4	
D7518		1SS254	DIODE	1	
D7528		1SS254	DIODE	1	
D7532		MA4220	DIODE	1	
D7533		1SS254	DIODE	1	
D7539,40		1SS254	DIODE	2	
D7541		LN81RCPH	LED	1	
D7542		1SS254	DIODE	1	
D7544-46		1SS254	DIODE	3	
DP7501		VSL0325	DISPLAY TUBE	1	
IC7501		M37507V4BU	IC	1	
IC7502		M6M80041P	IC	1	
IC7503		RPM675CBRX10	IR RECEIVER UNIT	1	
IC7504		PST7023	IC	1	
IC7505		S80743AL	IC	1	
K7509		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7514		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7518		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
P7501		VJS3537B032G	CONNECTOR (FEMALE) 32P	1	
Q7501		2SD1991A	TRANSISTOR	1	
QR7501		MUN2112	TRANSISTOR-RESISTOR	1	
QR7502		MUN2213	TRANSISTOR-RESISTOR	1	
QR7503		MUN2211	TRANSISTOR-RESISTOR	1	
R7501-03		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	3	
R7504		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7505		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7506-11		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	6	
R7513,14		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R7515		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R7517		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7518		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7519		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7520		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7521		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7524		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7534,35		ERJ6GMYJ132	M.RESISTOR CH 1/10W 1.3K	2	
R7536		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R7537		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7539		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7540		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R7542		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R7544		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7545		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R7546		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7549		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7550		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7551,52		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R7554,55		ERDS2TJ221	C.RESISTOR 1/4W 220	2	
R7556		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
SW7502-04		EVQ11409K	SWITCH	3	
SW7506-10		EVQ11409K	SWITCH	5	
SW7512-15		EVQ11409K	SWITCH	4	
SW7518		ESD172352	SWITCH	1	
X7501		VSX0608	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			MISCELLANEOUS		
		VJF1122	FIP HOLDER	1	
		VMD1047	LED SPACER	1	
		VMD2247	IR RECEIVER HOLDER	1	
	■	VEP00U88A	MAIN INTERFACE C.B.A.		(RTL)
PS1501		VJS3042B003W	CONNECTOR (FEMALE) 3P	1	
PS6005		VJS3042B003W	CONNECTOR (FEMALE) 3P	1	
	■	VEP00U71A	S-TAB C.B.A.		(RTL)
PP1501		VJP3042A003W	CONNECTOR (MALE) 3P	1	
Q1501		PN205L-NC.VT	PHOTO TRANSISTOR	1	
SW1501		VES0695	SAFETY TAB SW	1	
			MISCELLANEOUS		
		VMD1927	PHOTO TR. HOLDER	1	
	■	----------	MOTOR C.B.A.		
			MISCELLANEOUS		
		VJP3316B002	CONNECTOR (FEMALE) 2P	1	
	■	VEX0129	CYLINDER DRIVER C.B.A.		(RTL)
C2901-03		ECEA1VSN2R2	E.CAPACITOR 35V 2.2U	3	
C2904-06		ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	3	
C2907		ECUM1E683KBM	C.CAPACITOR CH 25V 0.068U	1	
C2908		ECUM1E473KBM	C.CAPACITOR CH 25V 0.047U	1	
C2910		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
IC2901		AN3814K	IC	1	
P2901		VJP2603W	CONNECTOR (MALE)	1	
P2902		VJP1232T	CONNECTOR (MALE) 5P	1	
R2901		ERX12SJR68	M.RESISTOR CH 1/2W 0.68	1	
			MISCELLANEOUS		
		VMA9138	MAIN HOLDER	1	

INTERNAL REFERENCE CODES

NOTE: This chart is only for internal reference.
Do not order any parts according to these codes.

P. C. B.	FILM CODE
MAIN SYUGO	H0A001-0284A
LUMINANNCE & CHROMINANCE	H0A001-03B22
SECAM	H0A000-03A02
OSD	H0A000-06979
HIFI AUDIO	H0A000-04447
TIMER SYUGO	H0A001-0285A
TV DEMODULATOR(A/EA)	H0A000-07801
TV DEMODULATOR(BD)	H0A000-07807
DECODER	H0A000-07784
NICAM	H0A000-07787
MOTOR DRIVE	H0A001-04469
HEAD AMP	H0A000-05330
CYLINDER DRIVE	H0A001-00V23
LOADING MOTOR	H0A000-00S75

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